PHASE I ENVIRONMENTAL SITE ASSESSMENT

MICHIGAN MEADOWS APARTMENTS 3800 WEST MICHIGAN STREET INDIANAPOLIS, INDIANA MUNDELL PROJECT NO. M01046

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DECEMBER 29, 2003

MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth and the Environment

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AIM001086

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MICHIGAN MEADOWS APARTMENTS 3800 WEST MICHIGAN STREET INDIANAPOLIS, INDIANA MUNDELL PROJECT NO. M01046

Prepared for:

Mr. Daniel P. McInerny, Esq. Bose McKinney & Evans LLP 2700 First Indiana Plaza 135 North Pennsylvania Street Indianapolis, Indiana 46204

December 29, 2003

Prepared by:

MUNDELL & ASSOCIATES, INC.

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December 29, 2003

Mr. Daniel P. McInerny, Esq. Bose McKinney & Evans LLP 2700 First Indiana Plaza 135 North Pennsylvania Street INDIANAPOLIS, INDIANA 46204

Re: Phase I Environmental Site Assessment
Michigan Meadows Apartments
3800 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Dear Mr. McInerny:

MUNDELL & ASSOCIATES, INC. (MUNDELL) has completed the Phase I Environmental Site Assessment for the Site per your request. This report, *Phase I Environmental Site Assessment*, includes the results of our findings from visual reconnaissance, historical ownership and land use review, records and regulatory review. Based on the results of this assessment, further evaluation of the Site is warranted.

We appreciate the opportunity to be of service to Bose McKinney & Evans LLP for this project and look forward to working with you on future assignments. In the meantime, if you have questions about information in this report or if we can be of further assistance, please contact MUNDELL at (317) 630-9060.

Sincerely,

MUNDELL & ASSOCIATES, INC.

Leena Lothe

Staff Environmental Engineer

John A. Mundell, P.E., L.P.G.

Pfesident/Senior Environmental Consultant

/lal

attachment: Phase I Environmental Site Assessment

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- Appendix F. Wellhead Protection Area Proximity Determination (IDEM Letter)
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EXECUTIVE SUMMARY

In November 2003, MUNDELL & ASSOCIATES, INC. (MUNDELL) performed a Phase I Environmental Site Assessment (ESA) of the Michigan Meadows Apartments property located at 3800 West Michigan Street in Indianapolis, Indiana (Site). The ESA included visual observations of the Site and limited observations of surrounding properties, review of historical ownership and land use, review of regulatory database listings and interviews of onsite staff.

The Site is located in a mixed residential/commercial and industrial area in the southwest side of Indianapolis. The Michigan Meadows Apartments consist of 23 multi-story apartment (total 253 units) and support buildings (red brick) on approximately 13.7 acres of land. The complex also includes a maintenance shop building, a swimming pool, a playground, asphalt-paved parking lots and driving areas. Records indicate that the buildings were constructed in three phases between 1962 and 1965, and there have been no additions to the buildings since their construction.

The Site, throughout the time span covered by the Indianapolis City Directories (1890 to 2000) and available aerial photographs (1937 to 2002), has historically been undeveloped prior to the construction of the apartment complex, and then used as a residential/commercial property. Review of information available at the Wayne Township Assessor's office indicated that the property was owned by David C. Eades and Roy H. Lambert in 1978. Prior ownership information is not available. The site was purchased in 1999 by AIMCO, and currently remains under its ownership.

The Site/facility is not registered as a Resource Conservation and Recovery Act (RCRA) hazardous waste generator. No visual evidence that chemicals or hazardous wastes have been generated, treated, stored or disposed of on Site was apparent during the Site observation visit. No information was provided during Site interviews that would indicate the historical use, storage or disposal of hazardous waste materials. Only routine janitorial, maintenance and pool supplies were observed. No debris, miscellaneous materials, wastes, or equipment clutter was observed on the outside of the maintenance building, or any of the apartment buildings.

Eight standard solid waste dumpsters and one large role off dumpster were located outside along the buildings on the property. These are provided for incidental trash disposal. No odors, spills, or staining were noted around the dumpsters, or anywhere else on the facility. Also, no spill or release events were recalled during on site AIMCO personnel interviews.

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Although no survey for Asbestos-containing Materials (ACMs) was conducted in this current Phase I investigation, ACMs are suspected in the form of roofing materials, floor tiles, sheet vinyl flooring, ceiling tile and drywall. Two independent ACM surveys conducted in 1992 and 1999 identified asbestos in floor tile, sheet vinyl flooring, and associated mastic (see Section 2.6). As such, this material represents a potential environmental concern if not properly managed during demolition or renovation.

Eleven (11) overhead pole mounted transformers were observed throughout the Site. At the time of this evaluation, evidence of damage or past or present leakage or spills was not apparent. Blue decals, which indicates the transformer does not contain PCBs, were observed on the transformers. Therefore, there is a likely probability of no PCB content in the transformer. However, actual testing must be conducted to confirm the lack of PCB content.

No radon testing was performed as part of this current Phase I ESA. However, during previous testing performed in an earlier Phase I ESA completed by Commerical Inspectors, radon concentrations ranged from 0.6 to 6.8 pCi/L, indicating that radon poses a potential concern at the facility (see Section 2.7).

Environmental subsurface investigations conducted by a number of environmental consultants since 1992 have disclosed volatile organic chemical (VOC) impacts to groundwater from the operations of the Site of the former General Motors Corporation Allison Gas Turbine Division (GM AGT) Plant 10 facility located due north of the Michigan Meadows Apartments across Little Eagle Creek. Groundwater sampling has indicated these impacts have apparently moved offsite and to the south beneath the Site (see Section 3.2 for a detailed discussion of these impacts). Indoor air quality investigations for the apartments indicates the potential for indoor air impacts that require further study.

Federal, state regulatory database searches and local regulatory records indicated the presence of several Facilities in the vicinity of the Site with potential environmental concerns that could impact the Site's groundwater:

- 1) The former GM AGT Plant 10 facility (also noted as the Former Allison Plant 10 in the databases) located north and immediately upgradieint of the Site (see Section 3.2 for a detailed review);
- 2) The former Accent Cleaners dry cleaners, located immediately south of the Site at the Michigan Plaza, which used chlorinated solvents (e.g., perchloroethene) in its operations;
- 3) The GMC Allison Transmission Plants 3 & 12/1, located upgradient to the northwest of the Site, with several violations and enforcement actions;

- 4) The Speedway/SM #6122 facility, located upgradient and north of the site, has four in-use USTs;
- 5) The Marathon Ashland Petroleum Speedway site, upgradient and north of the site, is a petroleum bulk storage and pipeline terminal with soil and groundwater impacts.

Therefore, based on the proximity of these sites, the presence of known groundwater impacts in the area and beneath the Michigan Meadows Apartments Site, and the potential indoor air quality concerns as a result of these underlying groundwater impacts, further investigation is warranted to evaluate the extent of groundwater impacts beneath the Site from offsite sources and continued indoor air monitoring of the apartment complex. In addition, an ACM management plan should be developed that outlines the actions necessary for proper ACM control during demolition and construction.

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PHASE I ENVIRONMENTAL SITE ASSESSMENT MICHIGAN MEADOWS APARTMENTS 3800 WEST MICHIGAN STREET INDIANAPOLIS, INDIANA MUNDELL PROJECT NO. M01046

1.0 INTRODUCTION

MUNDELL & ASSOCIATES, INC. (MUNDELL) conducted a Phase I Environmental Site Assessment (ESA) of the Michigan Meadows Apartments property at 3800 West Michigan Street in Indianapolis, Indiana (Site) in November 2003 on behalf of Mr. Daniel P. McInerny of Bose McKinney & Evans LLP. The location of the Site is presented in Figure 1, Site Vicinity Map. The property is developed as an apartment complex constituting 23 buildings, a maintenance shop building, a swimming pool, and a playground. The Site is rectangular in shape, and approximately 13.7 acres in size.

The primary purpose of this assessment was to identify documented and potential hazardous substances and/or chemical impacts to the Site from on-Site and/or off-Site sources. In accordance with our scope of work, MUNDELL performed walk-through observations of the Site, noted use of adjacent properties, and conducted a search of readily available historical and regulatory records. More specifically, the scope of services included the following:

1. Site and Adjacent Property Observations

Visual observations of the Site, on-site structures, and surrounding properties were made to identify potential sources or indications of chemical and/or petroleum impacts such as underground storage tanks (USTs), aboveground storage tanks (ASTs), potential sources of polychlorinated biphenyls (PCBs), chemicals and hazardous materials, areas with surface stains or distressed vegetation, and a visual observation of the site buildings to evaluate their general condition. In addition, the immediately adjacent properties were observed from the Site, without being entered, for possible sources of impacts or environmental impairment which could migrate to the Site via surface water runoff, groundwater transport, or other pathways.

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2. Geological Information

A review was made of available published geological and groundwater information obtained from the Soil Conservation Service and Indiana State Geological Survey for the Site vicinity.

3. Historical Review

A review of historical aerial photographs for the years 1937, 1956, 1962, 1966, 1971, 1974, 1987, 1992, 1993, 1995, 1997, 1999, 2000, 2001 and 2002 for the Site and adjacent properties was conducted to evaluate previous land use. Available historical Sanborn fire insurance maps and Indianapolis city directories were also reviewed for the Site and surrounding area. A review of a previous Phase I ESA, dated April 27, 1999, performed by Commercial Inspectors, LLC was also used to provide historical condition information concerning the Site.

4. Interviews with Site Representatives

Ms. Camille Pierce, community manager, and Ms. Sarah J. Marshall, relocation specialist with AIMCO, were interviewed with regards to the current and historical operations of the facility and possible past or present use of potentially hazardous materials at the Site.

5. Interviews with Local Government Officials

The Marion County Health Department was contacted to obtain information indicating recognized environmental conditions in connection with the property available in their files.

6. Environmental Records

A search of available environmental records associated with the Site and the surrounding properties was performed by Environmental Data Resources, Inc. (EDR) and reviewed by MUNDELL. This report meets the government records search requirements of the ASTM Standard Practice for Environmental Site Assessments, E1527-00. Search distances were per ASTM standards. In addition, records for the Site and pertinent vicinity facilities were also reviewed at the Indiana Department of Environmental Management (IDEM).

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2.0 SITE DESCRIPTION

The Site is located at the northeast corner of the intersection of Michigan Street and Holt Road in Indianapolis, Indiana. The adjacent properties are as follows: commercial/industrial property to the north across a wooded areas and the Little Eagle Creek; residential area to the east across Little Eagle Creek; residential areas across Holt Road to the west (see Photo No. 2 in Appendix A); and a shopping plaza (Michigan Plaza) to the south across Michigan street (Photo No. 3 and 4). The Little Eagle Creek adjacent to the Site is depicted in Photo No. 5. The current Site layout is presented in Figure 2.

Ms. Leena A. Lothe, Staff Environmental Engineer for MUNDELL, conducted the Site visit, on November 6th, 7th and 10th, 2003. At the time of the Site visits, there were cloudy to clear skies, with temperatures between about 40 to 45 degrees Fahrenheit. The Site visits consisted of property walkthroughs and visual observations of adjacent parcels of land.

In addition to the Site visit, readily available resources including soil surveys, aerial photographs, USGS topographic maps and city directories were reviewed. Referenced documents are included in Appendix B.

2.1 CURRENT GENERAL SITE CONDITIONS

The Site is located in a mixed residential, commercial and industrial area on the southwest side of Indianapolis. The Site is currently developed as a residential apartment complex, constituting studios, one, two and three-bedroom apartments. The Site, approximately 13.7 acres in size, is currently developed with 23 apartment buildings and one maintenance building (Photos Nos. 6 to 10). The property was originally developed in 1964, and was owned by David C. Eades and Roy H. Lambert in 1978 (Refer to the Property Record cards obtained from the Wayne Township Assessor's office: **Appendix G**). Prior ownership information is not available. The Site was purchased by AIMCO in 1999, and is currently owned by AIMCO.

The multi-storied red brick buildings are bordered by grass areas and asphalt parking lots. The ground cover constituted landscaped areas, grass, bushes, and tree lines. There were no signs of any stunted, distressed or increased vegetative growth at the time of the site observations.

The topography of the Site is generally flat. Based on the USGS 7.5' digital elevation model (Indianapolis West Quadrangle Topographic Map), the Site is approximately 715 feet above mean sea level (MSL). The Little Eagle Creek, adjacent to the site to the north and east of the Site, is the closest surface water body. Runoff across the Site is

likely to occur toward the east/northeast of the property, towards the Little Eagle Creek. Also, run-on from the adjacent (northwest/west) properties is possible.

The facility was observed by MUNDELL from the building interiors, and appeared moderately clean and well-maintained. The apartment buildings includes the following:

- 1) Ninety (90) one-bedroom, one-bath apartments;
- 2) Nine one-bedroom one-bath plus den apartments;
- 3) One hundred and ten (110) two-bedroom one-bath apartments;
- 4) Twelve (12) two-bedroom one-bath plus den apartments;
- 5) Twenty-two (22) three-bedroom and 1.5 bath apartments; and
- 6) Ten (10) studio apartments.

Each of the multi-storied buildings was observed from their interior common spaces (hallways, laundry room). Access was provided to representative, unoccupied basement level apartments in each building (see Photo Nos. 25 and 26), and the model apartment. Occupied units were not accessed. Each building had a basement level (e.g., Appendix A, Photo No.11), a first floor (Photo No. 27), and a second floor (Photo No. 28). The floors were carpeted except for the laundry rooms in the basements, which were concrete. A typical apartment consisted of a living room (Photo No.29), a dining area (Photo No. 31), a kitchen (Photo No. 30), closets, bathroom/s (Photo No. 34) and the bedrooms (Photos No. 32 and 33). The floors were carpeted except for the vinyl flooring in the kitchen and the bathroom/s. The ceilings were plastered drywall ceilings.

The basements exhibited a typical musty odor due to the age of the buildings and moisture retention. The laundry rooms for each of the buildings were located in the basement, and housed the boiler rooms (Photos No.12 to 24). The boiler rooms displayed 'certificates of inspection' (state form 364-R3/12-91), which were expired (Photo No. 24). Selected representative photographs of the inside of a building are included in **Appendix A**.

The facility was thoroughly observed from the exterior of each building (Photos Nos. 6 to 10). A single-story maintenance/storage shop brick building (Photo No. 35) exists to the northwest of the swimming pool area. Visual observation for the use/storage of hazardous materials was performed. Only routine janitorial, maintenance and pool supplies were observed (Photo No. 36 and 37). The MSDS sheets for chemicals kept on site are attached in **Appendix H**. The maintenance building also included a shower area used prior to entrance into the swimming pool. The swimming pool is illustrated in Photo no. 38. There exists a playground area including a slide and swings to the northwest of the swimming pool area (Photo No. 39). No debris, miscellaneous materials, wastes, or

equipment clutter was observed on the outside of the maintenance building, or any of the apartment buildings. Representative photographs are included in **Appendix A**.

Eleven (11) pole-mounted transformers were observed on site (see Figure 1 for locations). Photo Nos. 43 and 44 illustrate representative overhead pole-mounted electrical transformers on the property. A blue decal, which indicates the transformer does not contain PCBs, was observed on these transformers, indicating there is a likely probability of no PCB content in the transformer. However, actual testing must be conducted to confirm the lack of PCB content (Appendix E). Also, at the time of this evaluation, evidence of damage or past or present leakage or spills was not apparent. The property does not have any platform-mounted transformer units. Photo No. 41 and 42 illustrate the high capacity power lines running through the Site at its eastern boundary.

Eight standard solid waste dumpsters (Photo No. 45 and 46) and one large role off dumpster were located outside along the buildings on the property. These are provided for incidental trash disposal. No odors, spills, or staining were noted around the dumpsters, or anywhere else on the facility. Also, no such events were recalled by any of the interviewees. The regular trash pick-up company for the facility is 'Ray's Trash Service' (317-539-2024; www.raystrash.com).

A sewer lift station (Photo No. 47) is present on the southeast corner of the Site.

No pits, ponds, lagoons, or wetlands were identified on the property. Also, the property is located in the 100-year flood zone. Please refer to the overview map and the detail map in the EDR Radius Report (Appendix C).

A few fluorescent lights were observed in the laundry room in the basement level of the buildings. Due to access limitations, the light ballasts were not examined for labels identifying their PCB content. However, based on their locations and frequent use, it is likely that all lights were manufactured after 1979 when PCBs were prohibited from being used in the lights. As such, it is likely that the lights do not contain PCBs.

2.1.1 Soils

The USDA Soil Survey of Marion County, Indiana (USDA, 1991) indicates that the Site consists of Urban Land-Fox complex with estimated slopes between zero and three percent. The Urban Land complex indicates that fifty percent of the predominant soil type has been disturbed and has been covered with an impervious layer consisting of buildings, sidewalks, streets and other structures. The undisturbed areas of the complex retain the original soil characteristics. The Fox soils are identifiable in lawns, gardens, parks and other open areas. They have a representative profile of the series, but alteration is evident in many areas where topsoil has been stripped.

The Fox soil series generally consists of nearly level to moderately sloping, well-drained soils that are moderately-deep over sand and gravelly sand. The typical profile for the

Fox series is as follows: the surface layer is dark brown loam 8 inches thick. The subsoil is 30 inches thick. The upper 10 inches is dark brown friable loam; the next 6 inches is dark brown, firm sandy clay loam; and the next 14 inches is dark brown, firm gravelly clay loam.

2.1.2 Regional Geology and Hydrogeology

The surface of Marion County consists of Pleistocene glacial deposits and recent alluvial stream deposits. Marion County is situated within the southern part of the physiographic region known as the Tipton Till Plain. While most of the glacial material in the county consists of fine-grained silts and clay, sand and gravel outwash soils are commonly found along major streams. These outwash deposits, which fill the White River Valley and its major tributaries, were deposited in a complex fashion during what is thought to have been three primary ice advances and subsequent meltwater discharges from ice margins upstream from Marion County (Fleming et al., 2000). The Wisconsin-age sediments, within the White River Valley and a variety of smaller sand and gravel and fine-grained till units are distributed in a discontinuous nature throughout the valley.

The site itself is situated with an area containing variable thickness of outwash overlying complexly interbedded sand and gravel and fine-grained glacial till. Thick unbroken sections of sand and gravel are present locally, and are typically unconfined within the upper portions of the system, and confined or semi-confined by bodies of glacial till at depth (Fleming et al., 2000). Estimated thickness of the unconfined sand and gravel outwash in the area ranges from 20 to 40 ft on top of an undifferentiated Pre-Wisconsinan glacial till (Brown and Fleming, 2000).

The bedrock beneath the unconsolidated deposits in Marion County consists of sedimentary rocks of Mississippian, Devonian and Silurian age. The bedrock surface slopes gently to the southwest. Therefore, younger Mississippian rocks are at the bedrock surface in the southwest corner of the county and progressively older Devonian and Silurian rocks are at the bedrock surface in the central and northeast portion of the county, respectively (Harrison, 1963; Fleming et al., 1993). Bedrock beneath the unconsolidated deposits at the site is Mississippian and Devonian age New Albany Shale. The top of the bedrock surface is estimated to be between EL 625 to EL 650 above MSL.

The Site itself is located adjacent to the Little Eagle Creek. Based on local experience and published hydrogeologic data in this area (e.g., Meyer et al., 1975; Herring, 1976; Smith, 1983; Fleming et al., 2000), shallow regional groundwater levels in the vicinity are expected to range between EL 700 and EL 705 above MSL, with groundwater flow from the site generally towards the south-southeast in the direction of the flow of Little Eagle Creek.

The surface waters of the White River, Eagle Creek and Fall Creek are sources of industrial and public water supplies and comprise approximately 90 percent of the water used in Marion County. The unconsolidated sand and gravel aquifers associated with

the surface water bodies are the major source of groundwater supply in Marion County. The Little Eagle Creek is the principal surface water feature in the area. The Site is not located within a Marion County wellhead protection area (Appendix F).

The Site is located within one of seven Marion County Health Department (MCHD) No Well Zones (NWZs). NWZs have been designated by the MCHD, and reflect areas of contaminated groundwater identified by MCHD through routine sampling of potable wells. The MCHD requires permits for all water supply wells; however, with NWZs, no permits are granted by the MCHD.

2.2 WASTE MANAGEMENT AND CHEMICAL HANDLING

The Site/facility is not registered as a Resource Conservation and Recovery Act (RCRA) hazardous waste generator. No visual evidence that chemicals or hazardous wastes have been generated, treated, stored or disposed of on Site was apparent during the Site observation visit. No information was provided during Site interviews that would indicate the historical use, storage or disposal of hazardous waste materials.

A single-story maintenance/storage shop brick building (Photo No. 35) exists to the northwest of the swimming pool area on site. Visual observation for the use/storage of hazardous materials was performed. Only routine janitorial, maintenance and pool supplies were observed (Photo No. 36 and 37). The MSDS sheets for chemicals kept on site are attached in **Appendix H**. In general, the chemical containers were undamaged, clearly labeled, and capped, with no apparent evidence of spills or leakage. The chemicals were stored on metal shelves on an unbroken concrete floor in an area with no apparent stains.

Eight standard solid waste dumpsters (see Photo Nos. 45 and 46) and one large role off dumpster was located outside along the buildings on the property. These are provided for incidental trash disposal. No odors, spills, or staining were noted around the dumpsters, or anywhere else on the facility. Also, no spill or release events were recalled by any of the interviewees. The regular trash pick-up company for the facility is 'Ray's Trash Service' (317-539-2024; www.raystrash.com).

2.3 STORAGE TANKS

2.3.1 Underground Storage Tanks (USTs)

Visual evidence of surface connections or disturbances (i.e., manways, vent pipes, fill connections, concrete pads, saw cuts in paved surfaces, staining) indicating past or present potential for a UST installation on Site was not apparent. In addition, interviews with site AIMCO personnel did not indicate the current or historical presence of USTs on site.

According to the database search, one UST and one LUST have reportedly been located at 3800 West Michigan Street. The tank status, install date and closure date for the UST (Facility id: 20068) are not reported. The LUST is reported as active and of 'low' priority (Incident number: 198802048). Based on a detailed review of Indiana Department of Environmental Management (IDEM) files (see Section 4.2), it appears that the UST and LUST have incorrectly been identified as belonging to Coca Cola Bottling located at the 3800 West Michigan address. Based on Site ownership and usage, there is no indication of a Coca Cola Bottling ever being located at the Site address, or that any LUST was historically located at the Site.

2.3.2 Aboveground Storage Tanks (ASTs)

Visual evidence of surface connections or disturbances (i.e., piping systems, concrete pads, piping systems, staining) indicating past or present potential for an AST installation on Site was not apparent. In addition, interviews with site AIMCO personnel did not indicate the historical presence of ASTs on site.

2.4 UTILITIES

The city of Indianapolis supplies drinking water and sewage service to the Site. Electricity is supplied by Indianapolis Power & Light (IPL) via overhead secondary electrical service. Citizens Gas Utility supplies the natural gas to the Site.

2.5 POLYCHLORINATED BIPHENYLS (PCBs)

Polychlorinated biphenyls (PCBs) are toxic coolants or lubricating oils used in some electrical transformers, light ballasts, electrical panels or other similar equipment. PCB content in electrical transformers has been grouped into three categories by the Environmental Protection Agency (EPA):

PCB Content	Classification
< 50 ppm	non-PCB
50 to 499 ppm	
500 ppm and greater	PCB transformer

Utility companies often own transformer equipment and typically assume the responsibility for repair or replacement of damaged or leaking units and for required cleanup or remediation activities. Indications of damage or leakage should be immediately reported to the responsible utility company.

A total of eleven (11) overhead pole-mounted electrical transformers were observed across the Site. Photo Nos. 43 and 44 illustrate representative overhead pole-mounted electrical transformers, all of which are owned and operated by Indianapolis Power and Light (IPL) on the property. No platform-mounted transformers were noted on the property. Blue decals, which indicates the transformer does not contain PCBs, were observed on the transformers. Therefore, there is a likely probability of no PCB content

in the transformer. However, actual testing must be conducted to confirm the lack of PCB content (see **Appendix E**). Also, at the time of this evaluation, evidence of damage or past or present leakage or spills was not apparent.

2.6 ASBESTOS-CONTAINING MATERIALS (ACMs)

Typical building materials that contain asbestos are found in a variety of types and uses. Frequently-encountered types of asbestos-containing materials (ACMs) used in building construction include floor tile, sheet flooring, mastic, ceiling tile, spray-applied acoustical/decorative ceiling materials, plaster, wallboard and wallboard joint compound, insulations, roofing and flashing, and many other materials in common use prior to 1978. Materials that contain over one percent asbestos fibers are considered ACMs and must be handled according to Occupational Safety and Health Administration (OSHA) and USEPA regulations if disturbed.

ACMs identified as "friable" (capable of being crumbled, pulverized, or reduced to powder by hand pressure) have a greater potential for release of fibers to the atmosphere and are therefore of greater concern than non-friable ACMs. Friable ACMs that are damaged require renovation or removal and are therefore of greatest immediate concern.

An ACM survey was not conducted as part of this Phase I ESA. A survey conducted by Alt & Witzig in April 1992 identified suspected ACM in the form of sheet vinyl flooring, wallboard and roofing materials. Subsequent testing identified asbestos in floor tile and sheet vinyl flooring at selected locations. The previous Phase I ESA performed by Commercial Inspectors, LLC in April 1999 identified suspected ACM in the form of roofing materials, floor tiles, sheet vinyl flooring, ceiling tile and drywall. Asbestos sampling and testing during this earlier study identified ACM in floor tile and associated mastic (see Appendix I for previous study results).

MUNDELL recommends all ACM and suspected ACM be managed according to an ACM Operations and Maintenance (O & M) Program which follows U.S. Environmental Protection Agency (U.S. EPA) guidelines. This program should be based on a comprehensive asbestos survey with extensive sampling and analyses to more accurately quantify and qualify ACMs on site. If the ACMs become damaged, or in the event of renovation or demolition which may disturb these materials, they should be handled according to federal, state and local regulations.

2.7 RADON

The U.S. EPA uses a continuous exposure level of 4.0 pCi/L (picoCuries per liter of air) as a guidance level at which remedial action is recommended. According to the U.S. EPA radon mapping for Indiana, Marion County is located in a Zone 1, which represents the highest potential for the presence of radon exceeding 4.0 pCi/L. For the over 70 radon samples taken within the 46222 zip code as part of the U.S. EPA database of readings,

the radon gas levels varied between 4 to 20 pCi/L, with an average first floor dwelling concentration of 5.100 pCi/L, and an average basement reading of 8.625 pCi/L.

No radon testing was performed as part of this current Phase I ESA. However, during previous testing performed in the earlier Phase I ESA completed by Commerical Inspectors, radon concentrations ranged from 0.6 to 6.8 pCi/L, indicating that radon poses a potential concern at the facility. Because levels of radon gas fluctuate daily and monthly, the U.S. EPA recommends follow-up testing to determine annual average concentrations. If additional testing confirms elevated radon levels, consideration should be given for taking remedial measures to reduce the concentrations.

2.8 LEAD-BASED PAINT (LBP)

In general, the painted interior surfaces of the apartment units were in good condition, with no chipping, peeling or cracking paint observed in the selected apartment units accessed. No sampling and testing for LBP was conducted as part of the current Phase I ESA. Lead-based paint sampling during the previous 1999 Phase I ESA by Commercial Inspectors indicated that samples tested negative for lead.

2.9 ELECTROMAGNETIC FIELDS (EMFs)

The presence of high-voltage transmission lines on the eastern portion of the Site may cause elevated levels of radiation from EMFs to be present at or near these lines. This Phase I ESA did not include an evaluation of the level of this potential increase. Although no scientifically valid studies have confirmed a causal link between exposure to such elevated radiation from EMFs and health effects in humans, such as cancer, several states and scientific associations have set guidelines.

Currently, there are no federal standards limiting occupational or residential exposure to low-frequency (60-Hz) EMF from transmission lines. At least six states (Florida, Minnesota, Montana, New Jersey, New York, Oregon) have set standards for the maximum transmission line electric field strengths (ranging from 7 to 11.8 kilovolts per meter (kV/m) within right-of-ways; 1 to 3 kV/m at the edge), and two states (Florida and New York) have set standards for the maximum magnetic field strength (ranging between 150 to 250 Gauss (G) at the edge of the right-of-way) that existing lines produce at maximum load-carrying conditions.

Two organizations, the International Commission on Non-Ionizing Radiation Protection (ICNIRP) and the American Conference of Governmental Industrial Hygienists (ACGIH) have developed voluntary occupational exposure guidelines for EMF exposure (see Table 1). These guidelines are intended to prevent effects, such as induced currents in cells or nerve stimulation, which are known to occur at high magnitudes, and are not intended to demarcate safe and dangerous levels.

Table 1. EMF Exposure Guidelines

Exposure (60 Hz)	Electric Field, kV/m	Magnetic Field, G
ICNIRP (1998)	8.3	4.2
ACGIH (2001)	25	10

Note: The International Commission on Non-Ionizing Radiation Protection is an organization of 15,000 scientists from 40 nations who specialize in radiation protection; American Conference of Governmental Industrial Hygienists is a professional organization that facilitates the exchange of technical information about worker health protection.

3.0 SITE HISTORY AND ADJACENT LAND USE

Past land uses were investigated to identify historical practices or conditions that may have impacted the Site. This included a chain-of-ownership records review, an analysis of aerial photographs, and interviews with present owners. The historical and current uses of adjacent properties were evaluated to identify potential environmental impacts to the Site.

3.1 HISTORICAL USE INFORMATION REVIEW

3.1.1 Chain-of-Ownership / Historical Use

A search of the past property ownership/use was conducted by MUNDELL. The past property ownership/use was evaluated utilizing county tax assessor records, city directories and historical aerial photographs.

Based on information contained in a 1992 Alt & Witzig site assessment and asbestos survey contained in Appendix F of the 1999 Phase I ESA by Commercial Inspectors, the current apartment complex was built in three phases between 1962 and 1965. The assessor records show that the property was owned by David C. Eades and Roy H. Lambert in 1978. Prior ownership information is not available. The site was purchased in 1999 by AIMCO, and currently remains under its ownership.

Review of Indianapolis city directories (from 1890 through 2000 in ten year increments), and a review of historical aerial photographs indicate that the Site, throughout the time span covered by the city directories, had historically been undeveloped prior to the construction of the apartment complex, and then used as a residential/commercial property. The Site (3800 West Michigan Street) first appears in the 1973 city directories as MICHIGAN MEADOWS APTS (3800). The complete city directory search results are presented in **Appendix B**.

From a review of the chain-of-ownership, no evidence of historical activities or owners which may have potentially impacted the environmental integrity of the Site was identified.

3.1.2 Aerial Photography

Copies of aerial photographs taken on specific days in 1937, 1956, 1962,1966, 1971, 1974, 1987, 1993, 1995, 1997, 1999, 2000, 2001, and 2002 were obtained from EDR and the Indygov.org, the official web site of the City of Indianapolis and Marion County,

Indiana. These were evaluated to identify changes in land use and areas of potential environmental concern. Selected copies of the aerial photographs are included as Figures 3 to 7. Additional aerial photographs are contained in Appendix B.

Prior to 1966, the Site is shown to be an undeveloped parcel of land. The current on-site buildings first become visible in the 1966 photo, and have remained consistent since their construction. No unusual site features or activities were noted since the construction of the apartment complex. Significant commercial growth and use changes have occurred in the properties surrounding the Site throughout the coverage period.

No readily apparent on site environmental concerns such as illegal dumping, stockpiled materials, or spills were disclosed by reviewing the aerial photographs.

3.2 PREVIOUS INVESTIGATIONS

Environmental subsurface investigations conducted by a number of environmental consultants (e.g., Engineering Science, Inc.; Fluor Daniel GTI, Keramida Environmental) since 1992 have disclosed volatile organic chemical (VOC) impacts to groundwater from the operations of the Site of the former General Motors Corporation Allison Gas Turbine Division (GM AGT) Plant 10 facility located due north of the Michigan Meadows Apartments across Little Eagle Creek. Groundwater sampling has indicated these impacts have apparently moved offsite and to the south beneath the Site (see Section 8.0 for a list of report references). The site has been entered into the IDEM Voluntary Remediation Program (VRP) by its current owner, the Genuine Parts Company.

A company named BHT Corporation (BHT), the previous owners of the former GM AGT Plant 10 facility utilized trichloroethylene (TCE) as a parts degreaser in their parts rebuilding operations from the 1950s to the 1970s. Prior to 1956, the property north of Michigan Meadows Apartments was vacant land. Between 1956 and 1973, BHT operated the facility for carburetor and brake re-manufacturing. General Motors purchased the property from BHT in 1973, and subsequently used it for warehousing obsolete machines, tooling, and fixtures until the mid-1980s. The property became part of the GM AGT Division in 1973.

3.2.1 GM AGT Plant 10 Soil and Groundwater Impacts

Engineering Science, Inc. (ESI) conducted a *Phase I* at the GM AGT Plant 10 site (1992 and 1993), and the Plant 10 site was identified as a potential area of concern (PAOC). A follow-up assessment was conducted in November 1993, and was documented as *Phase II Assessment* Final report for General Motors Corporation Allison Gas Turbine Division. Results of this investigation identified trichloroethene (TCE), vinyl chloride (VC), 1,2-dichloroethene (1,2-DCE), tetrachloroethene (PCE), toluene, and methylene chloride in the soil on-site. Compounds most frequently detected included TCE, 1,2-DCE, and VC.

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OBG conducted a *Buyer Environmental Assessment* for the former GM AGT Plant 10 facility in March of 1994. VOCs detected in the subsurface soil were 1,2-DCE and TCE. VOCs detected in the groundwater were trans-1,2-DCE, cis-1,2-DCE and TCE. Between June 1995 and January 1997, Fluor Daniel GTI conducted additional investigation activities, which included installation, and monitoring of additional monitoring wells (on-Site and off-Site), soil and groundwater collection via push probe methods, Little Eagle Creek stream gauging, surface water sampling, and slug testing. These results are documented in their *Feasibility Study Report* (June 1997) and *Remedial Investigation* report (September 1997).

As a part of the *Phase II* investigation for the *Remediation Work Plan (RWP)* (March 2002; October 2002), Keramida conducted off-site subsurface sampling for volatile organic chemicals (VOCs), including testing at 3800 to 3823 West Michigan Street and the surrounding areas. One soil boring KB-17 located southwest of Building No. 1 on the Michigan Meadows Apartments Site exhibited a PCE concentration of 0.19 mg/kg and a TCE concentration of 2.4 mg/kg above the groundwater table. Both the concentrations exceeded the VRP Tier II Residential cleanup goal. The source of this impact was not identified. Off-Site groundwater samples taken from both the shallow and deep groundwater system indicated chlorinated solvent groundwater impacts (most notably cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments above VRP Tier II Residential and Non-residential cleanup goals,. Selected figures from these reports the results are attached in **Appendix J**.

3.2.2 Review of Keramida March 2002 Phase II Investigation

The most recent *Phase II* investigation by Keramida (Keramida, 2002) established a clear connection between the contamination found at the former Allison facility and the contamination detected beneath the Michigan Meadows Apartments and Michigan Plaza. MUNDELL's October 2002 review of the study stated that the investigation failed to delineate the full vertical and horizontal extent of chemical impacts to the underlying groundwater system. The organic chemical groundwater plume maps for dissolved cis-1,2-DCE, TCE, and vinyl chloride (VC) shown in the Keramida *Phase II* (see Figures 20, 21 and 22 in the attached **Appendix J**) had been developed using widely spaced groundwater monitoring wells. MUNDELL believed that these wells do not adequately define those plumes beneath the Properties, and that additional shallow and deep monitoring wells placed immediately south of Little Eagle Creek on the north side of the Michigan Meadows property, as well as others to the southeast (downgradient of the apparent plume centerlines) and south (beyond Michigan Plaza) were necessary to provide more detailed plume definition.

MUNDELL also indicated that the potential exists for a deeper dense-nonaqueous-phase liquid (DNAPL) solvent source to have migrated from the Plant onto the Michigan Meadows Apartment property. As such, MUNDELL believed that the proposed chemical source treatment at the Plant site would not be effective in reducing the

observed high groundwater concentrations beneath the Michigan Meadows Apartments. MUNDELL recommended that additional soil borings and monitoring well installations would be necessary to provide enough information to develop an informed remedial plan.

MUNDELL has indicated that not enough chemical sampling has been completed in Little Eagle Creek to determine the transient variation in concentrations that may be present in this nearby surface water body. This lack of data suggested to MUNDELL that the evaluation produced an inaccurate assessment of the potential exposures through recreational activities that the residents of Michigan Meadows Apartments or its visitors experience as they come into direct contact with the waters of Little Eagle Creek.

MUNDELL review also indicated that no data had been collected by Keramida during the Phase II investigation to determine if the groundwater plume beneath the Michigan Meadows Apartments was causing indoor air impacts that are a human-health concern to its residences. Based on this review, MUNDELL recommended that additional soil borings, monitoring wells, sediment and surface water sampling, and air monitoring within the Properties be completed as part of future activities.

3.2.3 MUNDELL's January 2002 Air Quality Study

Based on MUNDELL's review of the Keramida groundwater testing results available during the fall of 2001, a possible concern was raised that some or all of these volatile organic chemicals may find their way into the utility or living spaces of the apartment buildings located above the impacted groundwater plume. Therefore, an initial study was designed to detect potential impacts to indoor air quality at the Meadows Apartments that could cause a human-health concern to the current residents.

In December 2001, air quality samples were collected by MUNDELL from five Michigan Meadows Apartments buildings (Bldg Nos. 15, 16, 17, 19 and 20) located in the northwestern portion of the site nearest the former Allison facility over the most severely impacted portion of the groundwater plume. The subsurface investigations conducted by Keramida indicated significant levels of four chemicals of concern (COCs) in the shallow groundwater beneath this area of the property: TCE, PCE, cis-1,2-DCE, and vinyl chloride. Three air samples were collected from the laundry rooms in the basements of the buildings (Bldg Nos. 15, 19 and 20) and two samples were collected within available basement apartments (Apts. 1601 and 1702).

The analytical results of the limited air quality sampling at the Site performed by MUNDELL indicated low concentrations of TCE, PCE, cis-1,2-DCE and vinyl chloride were detected in selected air quality samples collected for this study. As a means of comparison for the analytical results, MUNDELL referred to risk-based methods utilized by federal regulatory agencies to develop life-time and site-specific inhalation and exposure concentrations for the constituents of concern. Three air samples indicated airborne concentrations slightly above the calculated life-time risk-based concentrations

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for TCE: Building 15 and 20 laundry rooms, and Apartment 1702. None of the other chemicals were found above life-time risk-based concentrations. However, no chemicals exceeded the calculated site-specific risk-based concentrations.

3.2.4 Review of Keramida October 2002 RWP

In October 2002, Keramida submitted a RWP to the IDEM VRP that outlined its plans for the remediation of the former GM AGT Plant 10 facility. MUNDELL's February 2003 review of the RWP indicated that it fell significantly short of addressing the groundwater impacts that have been disclosed on the Site from the Plant. The Phase II investigation was found to still not adequately define the vertical and horizontal groundwater impacts to the Michigan Meadows property. As such, additional shallow and deep monitoring wells were recommended by MUNDELL.

The RWP also attempted to provide justification to support a conclusion that alternative potential sources of contamination were the cause of the observed groundwater impacts beneath the Properties. However, MUNDELL (MUNDELL, 2003) pointed out that the potentiometric maps provided in the RWP (Figures 9a through 9h) as well as groundwater analytical maps in the RWP (Figure 12b and 13a for cis-1,2-DCE; Figure 12c and 13b for vinyl chloride) and plume maps in the Phase II Investigation Report (Figures 20a and 20b for cis-1,2-DCE, and Figure 22a and 22b for vinyl chloride), clearly demonstrated that the former GM AGT Plant 10 facility is directly upgradient of the property and the likely sole source of impacts.

As indicated by the earlier Keramida *Phase II* Investigation, MUNDELL also found that the *RWP* discounted the potential for dense non-aqueous phase liquids (DNAPLs) moving onto the Michigan Meadows Site, and that it did not address potential groundwater impacts to the indoor air quality at the Michigan Meadows Apartments. The *RWP*'s *Risk Assessment* failed to account for the potential impact that off-site movement of volatile organic chemicals beneath the Properties has on the current Properties residents. As such, no additional data had been collected during the RWP *Phase II* investigation to determine if the groundwater plume beneath the Site is causing indoor air impacts that are a human-health concern to its residences, even though preliminary air monitoring completed by MUNDELL in December 2001 and subsequently reported to IDEM clearly indicated detectable levels of selected volatile organic chemicals (mirroring those released at the Plant) at low concentrations that should be evaluated with additional testing.

MUNDELL also found that the limited testing of samples of the sediment, sediment pore water and surface water of Little Eagle Creek did not allow for the conclusion that the levels of cis-1,2-DCE represent an 'insignificant potential threat to ecological receptors,' as suggested by Kerimida. In addition, no evaluation was completed for potential dermal contact with the surface waters by human receptors via recreational or incidental exposure. Due to the minimal number of sample locations (three) and the lack of data

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collected throughout at least one entire hydrologic cycle, the results upon which the conclusions were based may provide an inaccurate assessment of the potential exposures through recreational activities that the residents of the Properties or its visitors experience as they come into direct contact with the waters of Little Eagle Creek.

Finally because of the deficiencies found in the *Phase II investigation* and the remaining wastes buried beneath the plant building, MUNDELL believed that it is likely that other Plant source areas will not be adequately investigated or remediated. The *RWP* contained no proposal for actively remediating the off-site groundwater contamination identified beneath the Michigan Meadows Apartments. Without treatment of all existing significant source areas, a time-to-cleanup estimate on the order of decades was estimated by MUNDELL. In addition, without more aggressive treatment of both on-site and off-site chemical sources, continuing potential impacts to indoor air quality of the Properties buildings could remain over a long period of time.

3.2.5 MUNDELL's April 2003 Air Quality Study

Selected indoor air sampling had been performed by MUNDELL on December 10, 2001. that detected the presence of volatile organic chemicals at low concentrations in several apartment building basement areas in the northwestern portion of the Site nearest the former GM AGT Plant 10 facility. These findings, along with a review of the subsurface investigations and remediation conducted by Keramida as part of the VRP activities, raised a concern that additional investigations on the Site were warranted to further define the severity and extent of groundwater impacts, and the resulting potential impact on indoor air quality for the facilities. As such, MUNDELL completed a more comprehensive indoor air quality investigation during April 2003 in coordination with IDEM and the Marion County Health Department (MCHD) designed to detect potential impacts at the Site that could pose a human-health concern to the current residents and tenants. The final results of this investigation were made available to IDEM and the MCHD to supplement ongoing studies by Keramida. In addition, the results were also provided to the current residents of Michigan Meadows Apartments and the tenants of Michigan Plaza.

Air quality samples were collected from 23 Michigan Meadows Apartments buildings (Bldg Nos. 1 through 23) and 4 tenant units (3801, 3805, 3815 and 3817 West Michigan) at the Michigan Plaza Shopping Center. Air samples were collected from the laundry rooms in the basements of 15 apartment buildings (Bldg Nos. 1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 14, 16, 19, 21 and 23) and 8 samples were collected within available unoccupied basement apartments (Apts. 501, 802, 1301, 1501, 1703, 1803, 2002 and 2203). Each air sample was collected in a six-liter, evacuated, stainless steel Summa Canister equipped with a passive flow controller set to fill the canister over a 24-hour period.

All 32 air samples collected were tested for the four chemicals of concern (COCs) previously identified in the shallow and deep impacted groundwater beneath the former

GM AGT Plant 10 facility and the Site during the Keramida VRP investigations: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC). In addition, three soil gas samples and one indoor air apartment building sample were selected for a more detailed analysis that included testing for a suite of 51 volatile organics. The sampling and testing program followed the general principles outlined in the *Massachusetts Indoor Air Sampling and Evaluation Guide* (WSC Policy #02-430, April 2002, Office of Research and Standards, Department of Environmental Protection) which is being considered as the basis for future IDEM indoor air quality policy development.

In addition to the indoor air sampling activities, the evaluation also included the collection of 5 soil gas samples and 5 groundwater samples taken at the installed soil gas monitoring well locations. Sampling locations were determined based on impacted groundwater data contained in previous investigations conducted by Keramida. Four sampling points were designated within Michigan Meadows Apartments and one within the parking lot of the Michigan Plaza Shopping Center.

The results of this investigation indicated that five (5) indoor airborne concentrations were above current draft U.S. EPA guidance target indoor air concentrations and IDEM draft default concentrations for PCE: Building 1, and all 4 sampled tenant units in Michigan Plaza Shopping Center. Nine (9) air samples indicated airborne concentrations above either the U.S. EPA and IDEM concentrations for TCE: Buildings 1, 6, 7, 10, 11, 12, 13, 20 and 21, and all four tenant units in the Michigan Plaza Shopping Center. None of the other two COCs (i.e., 1,2-DCE and vinyl chloride) were found above U.S. EPA and IDEM draft vapor concentration levels.

The results of this second indoor air investigation indicated the following:

- 1) The shallow groundwater beneath the site is impacted above IDEM RISC residential levels for the chlorinated solvents PCE, TCE and cis-1,2-DCE.
- 2) Detectable levels of volatile organic chemicals were observed in air samples taken from the unsaturated zone soil gas monitoring wells beneath the site.
- 3) These chemicals appear to be moving up through the unsaturated zone, and making their way through the building foundations and floor slabs where they have been detected in all of the basement level apartments or laundry rooms of the Michigan Meadows Apartment buildings and each of the tenant units tested at the Michigan Plaza Shopping Center.
- 4) Nine of the 23 apartment buildings (Buildings 1, 6, 7, 10, 11, 12, 13, 20 and 21) exhibit concentrations of either PCE or TCE in their basement areas above current draft U.S. EPA or IDEM target vapor levels.
- 5) Concentrations of both PCE and TCE above the U.S. EPA and IDEM draft levels were found in the four tenant spaces at Michigan Plaza Shopping Center.

A July 1, 2003 response letter was received from IDEM after review of MUNDELL's April 2003 air investigation report. IDEM stated that it did not believe the information presented indicated an imminent health threat requiring immediate action to relocate people or businesses or other immediate abatement action. IDEM did feel that the report indicated the potential for a vapor intrusion problem at Michigan Meadows Apartments and the Michigan Plaza Shopping Center, and that further investigation was prudent (see Appendix K for a copy of the IDEM letter).

3.3 ADJACENT LAND USE

Properties in the immediate vicinity of the Site were examined from curbside. The area surrounding the Site is residential, mixed commercial and industrial. More specifically, the adjacent properties are as follows: commercial/industrial property across the wooded areas and the Little Eagle Creek, to the north; residential area across Little Eagle Creek to the east; residential areas across Holt Road to the west (Photo No. 2); and a shopping plaza (Michigan Plaza) across Michigan street to the south (Photo No. 3 and 4). The current Site layout is presented in **Figure 2**.

Observations at the time of the Site reconnaissance did not indicate any obvious current visual evidence of surficial environmental impacts from the surrounding properties. Visual observation of the commercial/industrial property to the north of the site was unable to be made due to the high density vegetation along Little Eagle Creek.

4.0 RECORDS REVIEW

A review of databases and files from federal, state, and local environmental regulatory agencies was conducted to identify use, generation, storage, treatment or disposal of hazardous materials and chemicals, or release incidents of such materials, which may impact the Site. Environmental Data Resources, Inc. (EDR) provided the federal and state environmental database information to MUNDELL.

4.1 FEDERAL RECORDS

The federal environmental databases listed below have been reviewed to obtain information pertaining to the Site and properties within the listed approximate search distance of the Site. Also listed are the month and year when the database was last updated.

Table 1. Federal Database Search			
FEDERAL DATABASE	Search Radius (miles)	Last Update	
NPL: National Priorities List	1.00	7-22-03	
CERCLIS (Active): Comprehensive Environmental Response, Compensation, and Liability Information System (Active)	1.00	9-11-03	
CERCLIS (NFRAP Archive): Comprehensive Environmental Response, Compensation, and Liability Information System— No Further Remedial Action Planned (Archive)	1.00	9-11-03	
RCRIS TSD: Resource Conservation and Recovery Act Information System - Treatment, Storage, and Disposal Facilities	1.00	9-10-03	
RCRIS: Resource Conservation and Recovery Act Information System (RCRIS) - Hazardous Waste Generators (large [LQG] and small [SQG] quantity generators)	0.25	9-10-03	
CORRACTS: Resource Conservation and Recovery Information System - Corrective Action Sites	1.00	9-17-03	
ERNS: Emergency Response Notification System	0.25	12-31-02	
TRIS: Toxic Release Inventory System	0.50	12-31-01	
TSCA: Toxic Substances Control Act Inventory	1.00	12-31-98	
PADS: PCB Activity Database System	1.00	6-30-03	
RODS: Record of Decision	1.00	7-9-03	
Delisted NPL: National Priorities List	1.00	7-22-03	
FINDS: Facility Index System/Facility Identification Initiative Program Summary Report	1.00	7-25-03	

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The federal database review identified the facility in the FINDS (Facility Index System - Federal ASTM supplemental) database as 'Michigan Apartments'. Other pertinent environmental activity identified at the site was:

- Facility Registration System (FRS)
- State Systems (STATE)

Five facilities within the specified search distances were recorded in the Federal databases, and are listed below:

GMC Allison Transmission Plants 3 & 12/1

Location: 0.77 miles WNW

Database(s): CORRACTS, PADS, RCRIS-LQG, FINDS, CERC-NFRAP

Accent Cleaners

Location: Approx. 0.15 miles S Database(s): RCRIS-SQG, FINDS

General Motors Plant 10

Location: Approx. 0.2 miles NNE

Database(s): RCRIS-SQG

Former Allison Plant 10

Location: Approx. 0.21 miles NNE Database(s): RCRIS-SQG, FINDS

Marathon Ashland Petroleum Speedway

Location: 0.81 miles N

Database(s): RCRIS-SQG, FINDS

Within the CORRACTS database, which identifies hazardous waste handlers with RCRA corrective action activity, GMC Allison Transmission Plants 3 & 12/1 had two entries detailing the corrective action at the site. The facility is classified as a LQG'-large quantity generator. This facility was identified in the CERCLIS-NFRAP database (alias names-Detroit Diesel Allison Div GM Corp, Detroit Diesel (SIA), and Allison Transmission-GM). There are 23 violations and 29 enforcement actions (27 written informal and two Final 3008(A) Compliance Orders) listed for the facility within the RCRIS database.

The areas of violation are:

- Generator Pre-transport Requirements
- TSD-Tanks Requirements
- TSD-LAND BAN Requirements

- Generator-General Requirements
- Generator-Manifest Requirements
- INUWR
- INUOA
- Generator-All Requirements (Oversight)

The FINDS database listed the following 'Other Pertinent Environmental Activity Identified at Site':

- AIRS Facility System (AIRS/AFS)
- Biennial Reporting System (BRS)
- Facility Registration System (FRS)
- ICIS
- NEI
- National Compliance Database (NCDB)
- National Emissions Trends (NET)
- Resource Conservation and Recovery Act Information System (RCRAINFO)
- State Systems (STATE)
- Toxic Chemical Release Inventory System (TRIS)

Accent Cleaners is classified as a Conditionally Exempt Small Quantity Generator (SQG), with no TSDF activities reported. The EPA id is IND133360693, and there have been no violations documented for the facility. The FINDS database listed the following 'Other Pertinent Environmental Activity Identified at Site':

- Facility Registration System (FRS)
- Resource Conservation and Recovery Act Information System (RCRAINFO)

General Motors Plant 10 was listed in the RCRIS-SQG database, classified as a small quantity generator (SQG) with no TSDF activities reported, and no violations found. The EPA id for the facility is INR000010926.

Former Allison Plant 10 was identified in the RCRIS-SQG database, classified as a small quantity generator (SQG) with no TSDF activities reported, and no violations found. The EPA id for the facility is INR000806810. The FINDS database listed the following 'Other Pertinent Environmental Activity Identified at Site':

- Biennial Reporting System (BRS)
- Facility Registration System (FRS)
- Resource Conservation and Recovery Act Information System (RCRAINFO)

Marathon Ashland Petroleum Speedway was identified in the RCRIS-SQG database, classified as a small quantity generator (SQG) with no TSDF activities reported, and no violations found. The EPA id for the facility is INR005417126. The FINDS database listed the following 'Other Pertinent Environmental Activity Identified at Site':

- AIRS Facility System (AIRS/AFS)
- Facility Registration System (FRS)
- NFI
- Permit Compliance System (PCS)
- Resource Conservation and Recovery Act Information System (RCRAINFO)
- State Systems (STATE)
- Toxic Chemical Release Inventory System (TRIS)

The addresses of the properties and the approximate distance, direction, and elevation relative to the Site are listed in the EDR Report in Appendix C.

4.2 STATE RECORDS

The state environmental record sources listed below have been reviewed to obtain information pertaining to the Site and properties within the listed approximate search distance of the Site. Also listed are the month and year when the sources or databases were last updated.

Table 2. State of Indiana Environmental Record Search			
STATE DATABASE	Search Radius (miles)	Last Update	
SHWS: Indiana Hazardous Waste Sites	1.00	12-1-02	
SWF: Indiana Permitted Solid Waste Facilities	1.00	7-11-03	
LUST: Indiana Leaking Underground Storage Tank List	0.50	9-24-03	
UST: Indiana Registered Underground Storage Tank List	0.25	9-24-03	
SPILLS: Spill Incidents	0.25	9-24-03	

The Site was identified in the database search as a UST, LUST and IN SPILLS Site.

Coca Cola Bottling

Database(s): UST, LUST,

One reported low priority LUST, with impacted soil, and one UST (not reported).

3800 West Michigan Street

Database: IN SPILLS

According to the UST and LUST databases, a total of one UST and one LUST are documented at the address 3800 West Michigan Street, labeled as the Coca Cola Bottling

facility. During the Site survey, no signs of Coca Cola Bottling (Facility ID 20068), or of any UST/LUST were observed. A checking of the IDEM database during a visit to IDEM indicated that the UST/LUST Status record for Coca Cola was marked as 'INCOMPLETE' which means that no files for the facility have reached the IDEM file room. A checking with the IDEM State Cleanup section noted that the record was marked as an "Emergency Response" which was 'partially cleanup up". Since there is no evidence that Coca Cola ever operated at the Site (and certainly not during 1988 at the time of the reported incident), it is believed that the IDEM UST/LUST database record is inaccurate and invalid.

The IN SPILLS records search indicated a domestic sewage spill (three gallons) on the Site (3800 West Michigan Street) on 1/22/2002, and the water body affected was Little Eagle Creek. No signs of sewage spill impacts were observed during the site walk through.

Three facilities within the specified search distances were recorded in the State databases, and are listed below:

Floral Park Cemetery

Location: 0.35 miles SE

One reported low priority LUST, with impacted soil; one permanently out of service

UST

Speedway/SM #6122

Location: 0.25-0.5 miles N

One reported low priority LUST, with impacted soil; nine USTs.

Marathon Ashland Petroleum Speedway

Location: 0.81 miles N Database: SHWS

The databases of USTs and LUSTs within the state of Indiana are maintained by IDEM. According to these databases, a total of ten USTs and two LUSTs are identified within half a mile of the Site. One of the USTs and one of the LUSTs were listed under Floral Park Cemetery with one facility identification number (14038). The UST is permanently out of service. One LUST and nine USTs were listed under Speedway/SM #6122 with one facility identification number (6663). Four of these USTs were 'currently in service', and five were 'permanently out of service'.

Based on the location of the Site, Speedway/SM #6122 is upgradient of the Site, and further investigation is necessary since there are four in-service USTs identified in the database. A complete listing of UST and LUST facilities found within the search distance, including a location map, is included in the EDR Report in Appendix C.

The database files were reviewed regarding state solid waste facilities/landfill Sites (SWF/LS) and state hazardous waste Sites (SHWS). The Marathon Ashland Petroleum Speedway is listed in the SHWS database (Facility id 0000101), with a score of 21.04. The contaminant type is documented as petroleum and volatile organic hydrocarbons (VOCs), and the media affected are soil and groundwater. The Speedway terminal site is a petroleum bulk storage and pipeline terminal operated by Marathon Ashland Petroleum. During an onsite soil and groundwater investigation, petroleum free product was found to be impacting the groundwater. Multiple subsurface investigations were conducted to determine the extent of free product as well as adsorbed and dissolved phase organic compounds. The contaminants of concern were determined to be migrating offsite, and multiple recovery wells were placed to treat the groundwater and collect free product. A soil vapor extraction system is being used to remove volatile organic compounds from the soil and groundwater. Significant reductions in free product thickness are currently being found. The soil vapor extraction system has adequately treated the volatile organic compounds to below cleanup goals. The site currently remains in the operation and maintenance stage. Investigations are ongoing to determine locations of source areas and mitigate these sources. IDEM is negotiating additional investigation needs with Marathon.

The SPILLS database, which tracks reported spill incidents, is maintained by IDEM. The records search indicate a domestic sewage spill (three gallons) on the Site (3800 West Michigan Street) on 1/22/2002, and the water body affected was Little Eagle Creek. The EPA id number for the site is \$105274365.

The EDR proprietary historical database lists eleven gas station/dry cleaner sites within 0.25 miles from the site (Appendix C: page 19).

Also, Allison Engine Co. has been listed in the Brownfield's database as a VCP (Voluntary Cleanup Program) site (VRP id 6991004).

NOTE: Any records obtained from a non-governmental source should have been updated within 90 days of the date the government agency last made the information publicly available. Information is presented in the manner, grammatical style and spelling archived in the records as the commercial database provider presented them.

4.3 INFORMATION FROM INTERVIEWS

4.3.1 Interview with Site Representative

Ms. Camille Pierce, community manager, and Ms. Sarah J. Marshall, relocation specialist with AIMCO were interviewed about the operations at the Site. None of the interviewees were aware of any environmental permits, regulations or Notices of Violation (NOVs) associated with the Site. In addition, they were unaware of the presence of any underground storage tanks and aboveground storage tanks at the site. The AIMCO

personnel were aware of the ongoing soil and groundwater environmental investigations at the former General Motors Corporation Allison Gas Turbine Division Plant 10 facility directly north of the Michigan Meadows Apartments, and the concerns regarding the presence of contaminated groundwater beneath the complex potentially causing impacts to the indoor air quality within the basement apartments (for further details, see Section 3.2).

4.3.2 Interview with Local Government Officials

Mr. Adam Rickert, of the Marion County Health Department (MCHD) Bureau of Environmental Health, was contacted on November 04, 2003 to determine if any records or incident reports were available for the Site at the MCHD.

The records demonstrate the following incident reports for the Site (3800 W. Michigan Street):

- 1) Complainant concerned about spraying (pesticides) for weeds near her apartment.
- 2) A letter to a resident from the MCHD regarding the improper disposal of dialysis bags.
- 3) An odor/sickness complaint (June 1996), which was corrected by the MCHD.
- 4) Sewage overflow incident from a manhole into the Little Eagle Creek, on January 22, 2002. A review of this incident indicates that it refers to an overflow that occurred at a mobile home park rather than the Michigan Meadows Apartments.

A number of incident reports and violations related to compliance issues were noted on the dry cleaner inspection checklists, with respect to Accent Dry Cleaners located at 3819 W. Michigan Street, (perchloroethylene (PCE)). No record of any solvent releases was noted in these documents. The reports are attached in Appendix D.

The MCHD records and the correspondence with respect to the Former Allison Engine Company, Plant 10 are also attached in Appendix D.

These MCHD records and/or incident reports identified for the Site and some of the adjacent properties are attached in **Appendix D**.

4.4 SUMMARY OF RECORDS REVIEW

The federal database review identified the facility in the FINDS (Facility Index System - Federal ASTM supplemental) database, and the state database review identified the site in the LUST, UST, and IN SPILLS database.

One CORRACTS site, three RCRIS Small Quantity Generator sites, one RCRIS Large Quanity Generator (LQG) site, one State Hazardous Waste site, two LUST sites, and one VCP site were identified within the ASTM specified search radii.

In conclusion, the records reviewed indicate that facilities near the Site have several reported environmental concerns:

- 6) Due to the use of solvents at the site, the former dry cleaners (Accent Cleaners) in the Michigan Plaza immediately south of the Site poses a potential environmental concern (for example, chlorinated solvent releases such as perchloroethene) for the Site.
- 7) There are violations and enforcement actions (RCRIS) documented for GMC Allison Transmission Plants 3 & 12/1, which exists upgradient of the site. This facility represents a potential environmental concern for the Site; hence further investigation is indicated with respect to this facility.
- 8) The former **GM AGT Plant 10** (also noted as the Former Allison Plant 10 in the databases) located north of the Site has been classified as a small quantity generator (RCRIS). Though no violations or TSDF activities are documented, because of its immediate proximity and the type of business operations that have historically taken place, the site is a potential concern. Therefore, further evaluation is indicated.
- 9) The Speedway/SM #6122 facility has four in-use USTs. Since the site is upgradient of the Site, the site is a potential concern, and further investigation is indicated.
- 10) Marathon Ashland Petroleum Speedway documented in the SHWS database may pose a potential concern with respect to the petroleum products migrating offsite. Therefore, additional evaluation is indicated.

Therefore, based on proximity of other sites with environmental concerns, the potential exists for environmental impairment to the Site's groundwater system, and further investigation is warranted.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

This Phase I Environmental Site Assessment included a reconnaissance visit to the Site, a review of the previously listed available environmental database and related agency information for the Site and surrounding properties, interviews, prior ownership records, aerial photographs, published geologic information, and other related items. This information was used to evaluate existing or potential environmental impairment of the Site due to current or past land use disclosed by this study.

The findings of this assessment did disclose potential environmental concerns at the Site, and there is known environmental impairment from current or past land usage or from surrounding properties.

1. Adjacent RCRA, Known Groundwater Impacts

The former General Motors Corporation Allison Gas Turbine Division Plant 10 facility located north of the Site have been classified as small quantity generators (RCRIS). Though no violations or TSDF activities are documented, known impacts from this facility to the underlying groundwater system at the Michigan Meadows Apartments is present. Therefore, these known groundwater impacts warrant continuing monitoring and further investigation.

2. Adjacent Dry Cleaners (Chlorinated Solvents, PCE)

The historical existence of dry cleaners (Accent Dry Cleaners) in the Michigan Plaza, just south of the site (3819 W. Michigan Street - Michigan Plaza), poses a potential concern for the Site. It is possible that residual hazardous substances (e.g., perchloroethene) from the previous dry cleaning operations have reached the Site via subsurface flow. The former dry cleaning activities represent a potential environmental concern to the Site.

3. Adjacent RCRA, Miscellaneous Violations

There are violations and enforcement actions (RCRIS) documented for the General Motors Corporation Allison Transmission Plants 3 & 12/1, which exists upgradient of the site. Hence, it is a potential area of concern.

4. Vicinity Petroleum Releases (LUSTs / USTs)

The Speedway/SM #6122 facility has four in-use USTs. It is possible that impacts have reached the Site via subsurface flow. Therefore, these tanks represent a potential environmental concern to the Site.

Marathon Ashland Petroleum Speedway documented in the SHWS database may pose a potential concern with the petroleum products migrating offsite.

5. Asbestos-Containing Materials (ACMs)

ACM is suspected in the form of roofing materials, floor tiles, sheet vinyl flooring, ceiling tile and drywall. A complete ACMs assessment, including sampling and analysis of suspect materials, was previously conducted for the property. Laboratory analytical results indicated asbestos was detected in floor tile and associated mastic. As such, this material represents a potential environmental concern if not properly managed during demolition or renovation.

6. Transformers

Eleven (11) overhead pole mounted transformers were observed throughout the Site. At the time of this evaluation, evidence of damage or past or present leakage or spills was not apparent. Blue decals, which indicate the transformer does not contain PCBs, were observed on the transformers. Therefore, there is a likely probability of no PCB content in the transformer. However, actual testing must be conducted to confirm the lack of PCE content.

7. Boiler inspections

The boiler rooms displayed 'certificates of inspection' (state form 364- R3/12-91), which were expired.

5.2 RECOMMENDATIONS

Based on the above findings and conclusions, MUNDELL recommends the following steps to further evaluate the identified potential environmental concerns. Assistance with developing detailed programs for such additional studies can be provided on request.

- 1. Additional soil and groundwater sampling along the northern boundary of the Site and downgradient to monitoring ongoing impacts from the former GM AGT Plant 10 facility and better determine the horizontal and vertical chlorinated organic impacts to the groundwater system.
- 2. Installation of additional soil borings along the southern property boundary in the vicinity of former dry cleaners to determine potential impacts from the former operations.
- 3. Development and implementation of a formal asbestos management program for the Site.

4. Monitoring of the eleven (11) transformers as part of the routine property maintenance activities. Immediate reporting and testing of any leaking transformers to determine the presence of PCBs, is recommended. If present, it is recommended that the fluids be changed to a non-PCB containing type.

. . .

6.0 LIMITATIONS

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the records review, Site observations, field exploration, and laboratory test data presented in this report.

It should be noted that environmental evaluations are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and Site evaluation. For these types of evaluations, it is often necessary to use information prepared by others and MUNDELL cannot be responsible for the accuracy of such information. Additionally, the passage of time may result in a change in the environmental characteristics at this Site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit and is not intended to satisfy the requirements of any state, federal, or local real estate transfer laws.

This report is intended for the sole use of Bose McKinney & Evans LLP. This report may not be used or relied upon by any other party without the written consent of MUNDELL. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

Our conclusions regarding the potential environmental impact of nearby, off-site facilities on the Site are based on readily available information from the environmental databases and the assumed groundwater flow direction. A detailed file review of each facility was beyond the scope of work.

MUNDELL reviewed past ownership of the project Site in an attempt to determine past Site usage. MUNDELL is not a professional title insurance firm and makes no guarantee, explicit or implied, that the listing reviewed represented a comprehensive delineation of past Site ownership or tenancy for legal purposes.

MUNDELL does not warrant the correctness, completeness, currentness, merchantability, or fitness of any information related to records review provided in this report. Such information is not the product of an independent review conducted by MUNDELL, but is only publicly available environmental information maintained by federal, state, and local government agencies.

7.0 PROFESSIONAL CREDENTIALS

A qualifications statement of the environmental professionals responsible for this Phase I Environmental Site Assessment and preparation of the report has been delivered to Bose McKinney & Evans LLP, under separate cover. This statement includes relevant individual and corporate qualifications.

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8.0 REFERENCES

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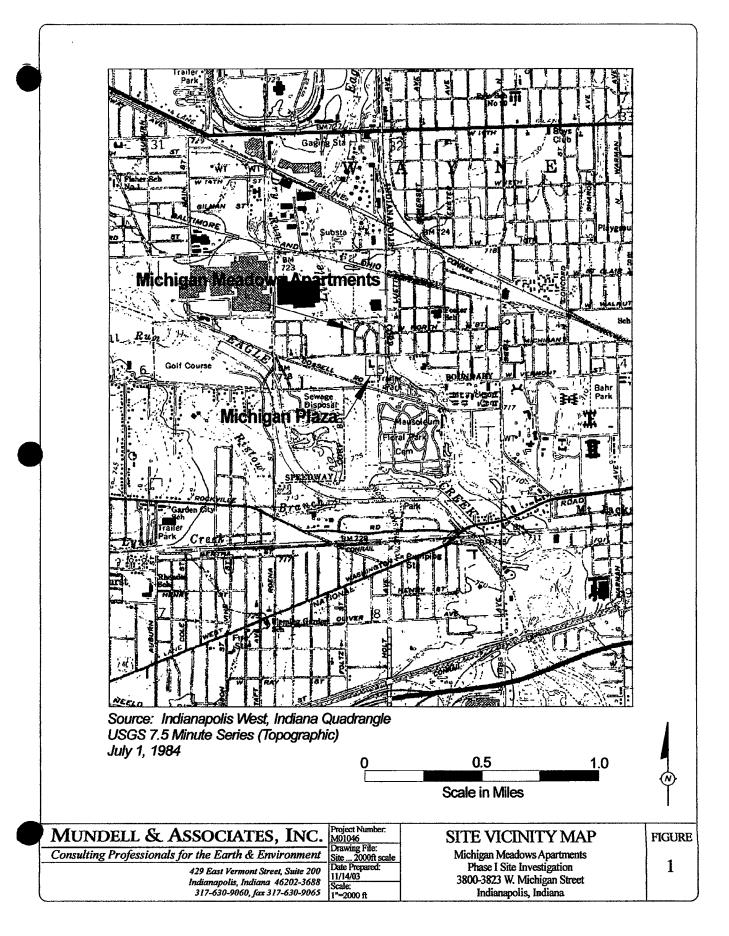
United States Department of the Interior, Geologic Survey, Topographical Map, Indiana Quadrangle, 1986.

FIGURES

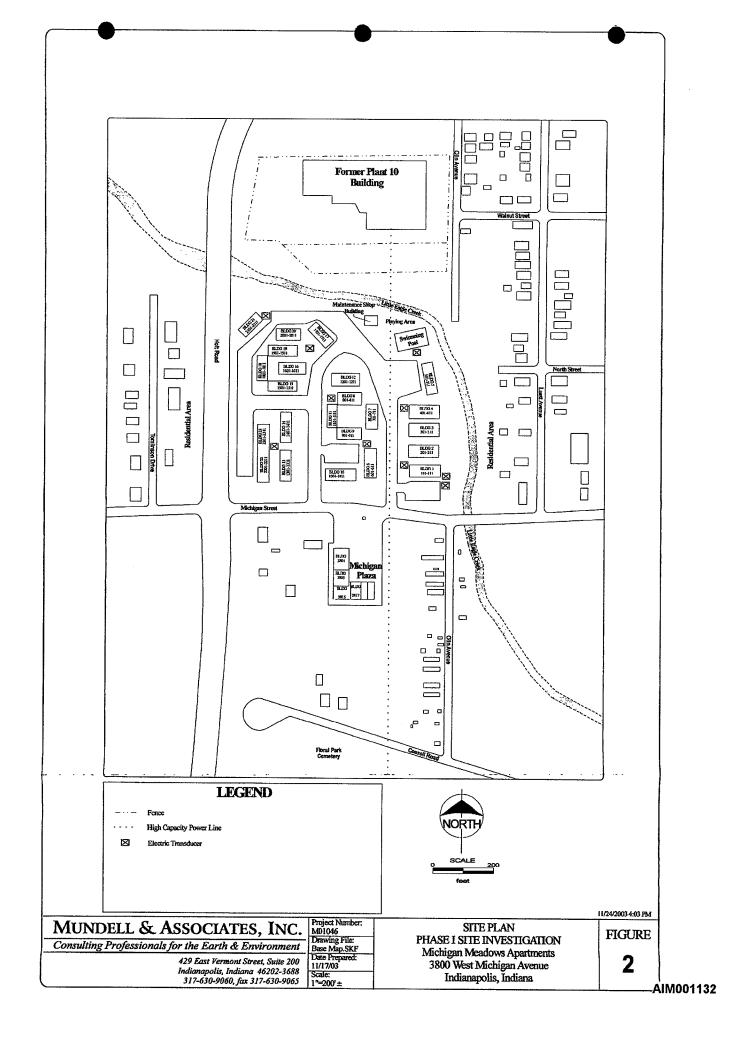
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FIGURES

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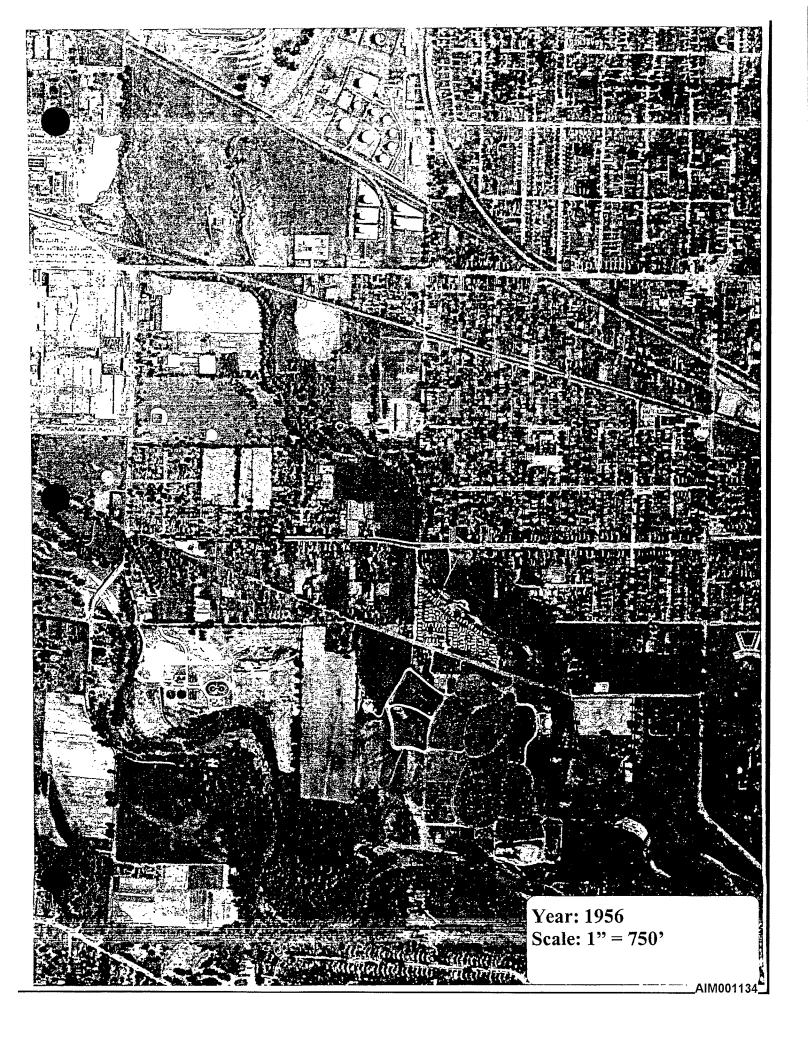
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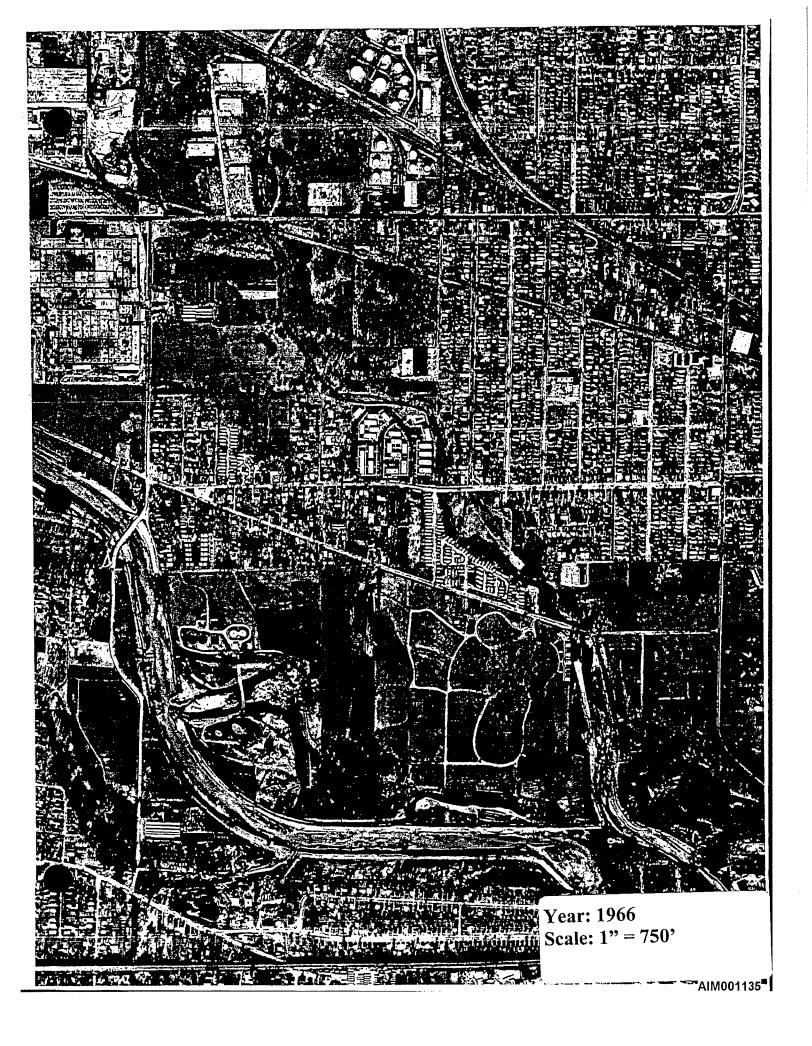


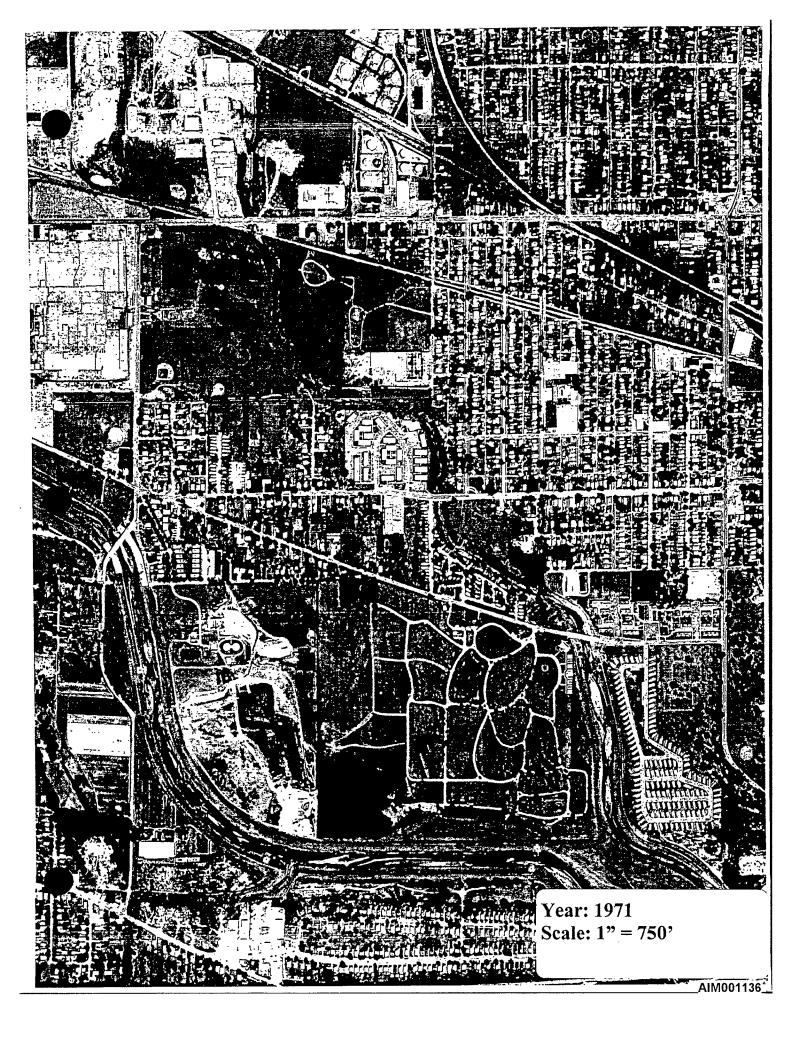
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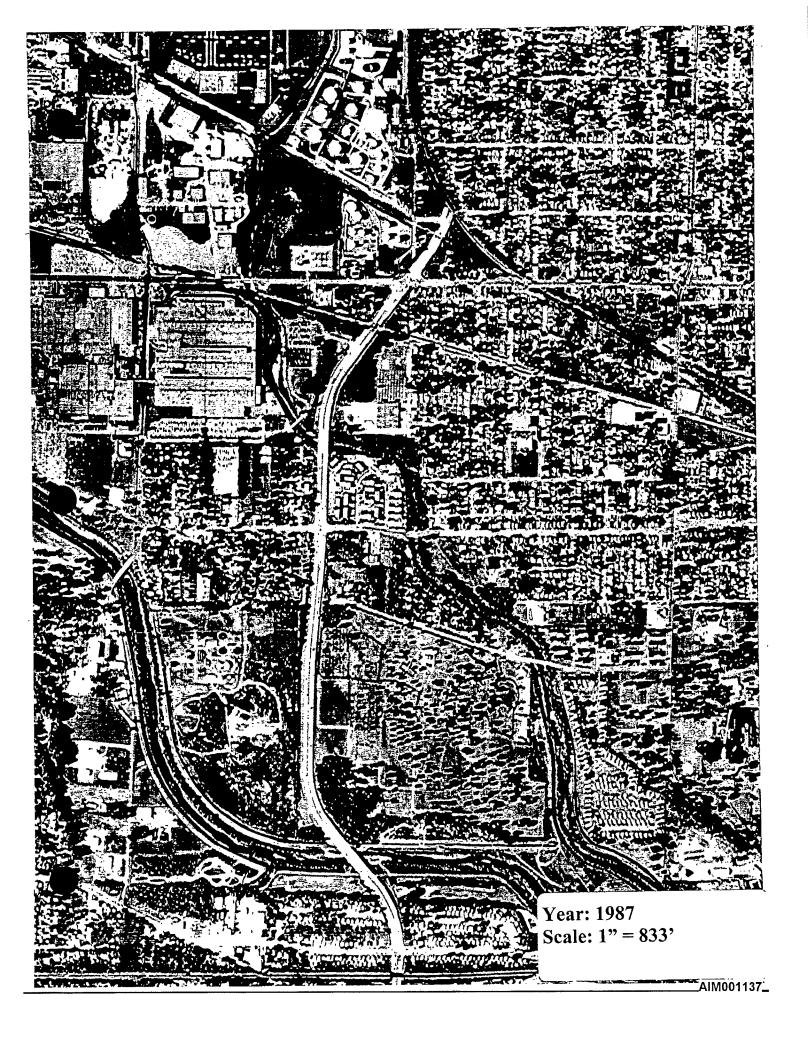
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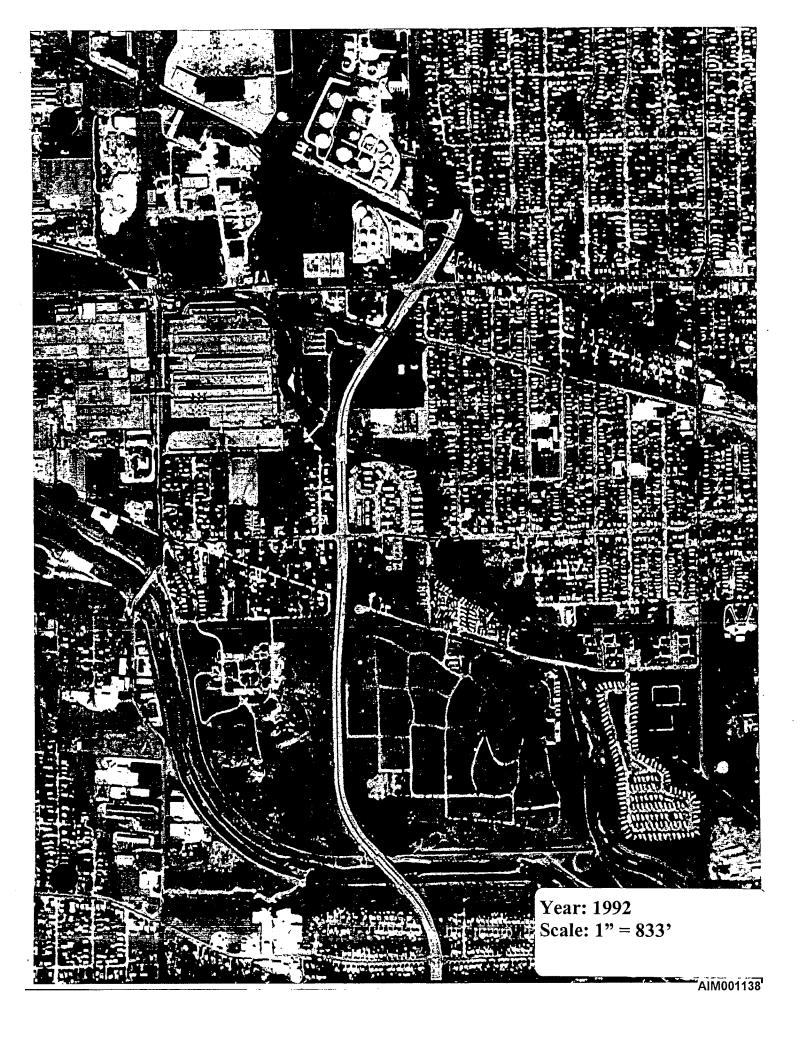
PUR II <u>Year</u>	<u>Uses</u>	Portion-Findings (FIM Information Only)	Source
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1966	Aerial Photograph. Scale: 1"=750'	Panel #: 2439086-G2/FlightDate: March 2, 1966	nar
3 1971	Aerial Photograph. Scale: 1"=750'	Panel #: 2439086-G2/FlightDate: August 12, 1971	nar .
1987	Aerial Photograph. Scale: 1"=833'	Panel #: 2439086-G2/FlightDate: August 19, 1987	nar
5 1992	Aerial Photograph. Scale: 1"=833'	Panel #: 2439086-G2/FlightDate: March 1, 1992	nar











APPENDIX A

Site Visit Photographic Log

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APPENDIX A

Site Visit Photographic Log

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Photo 1: Michigan Meadows Apartment Complex Entrance

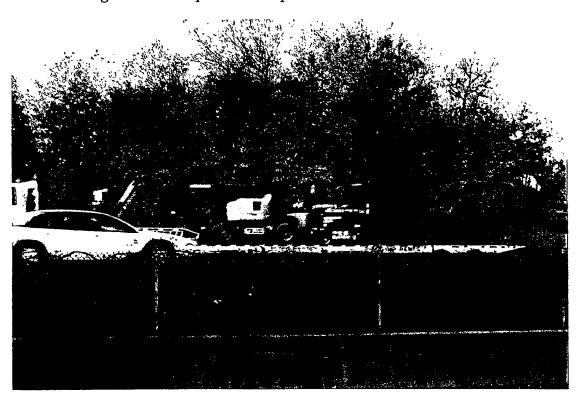


Photo 2: Adjacent Property to the West (Residential Area across Holt Road)



Photo 3: Adjacent Property to the South (Michigan Plaza)

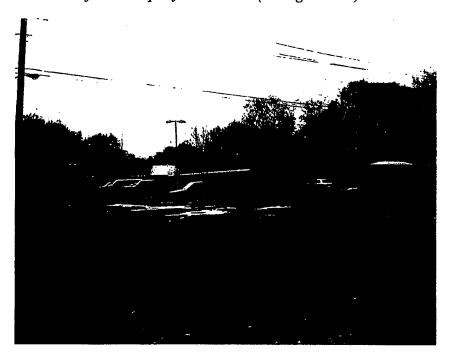


Photo 4: Michigan Plaza



Photo 5: Adjacent Property to the East and North (Little Eagle Creek)



Photo 6: Buildings Exterior – Red Brick (Bldg. 12)

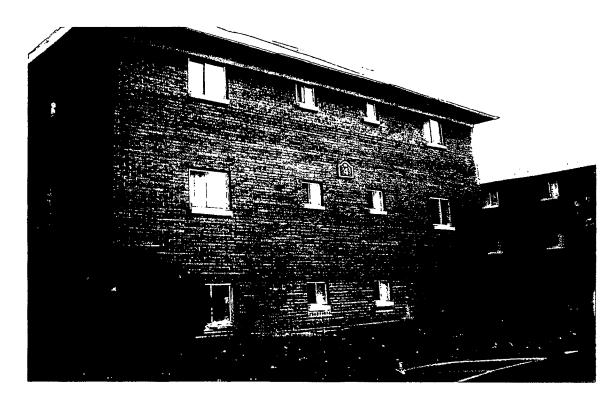


Photo 7: Building Exterior (Bldg 4)



Photo 8: Building Exterior (Bldg. 5)



Photo 9: Building Exterior (Bldg 14)



Photo 10: Backside of Building 12 (Backdoor, Gas line)

AIM001145

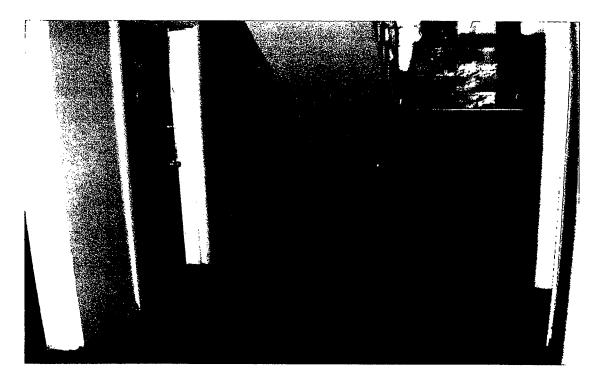


Photo 11: Basement of Building 12

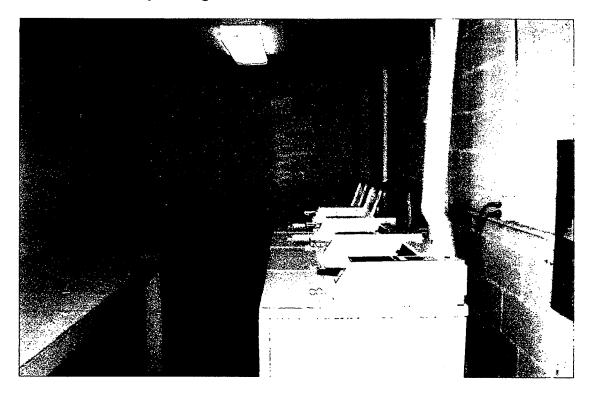


Photo 12: Laundry Room (Building 12 Basement)

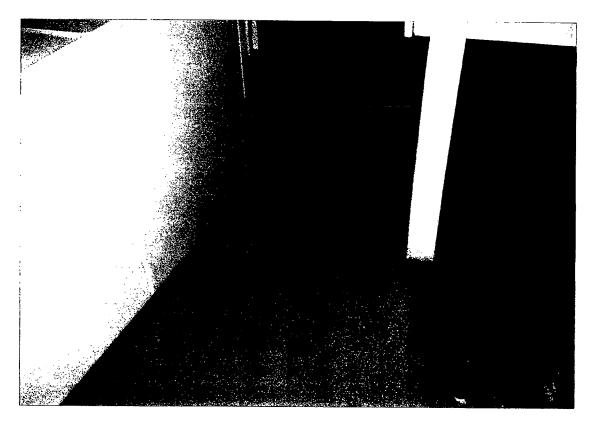


Photo 13: Laundry Room Floor (Bldg 12)

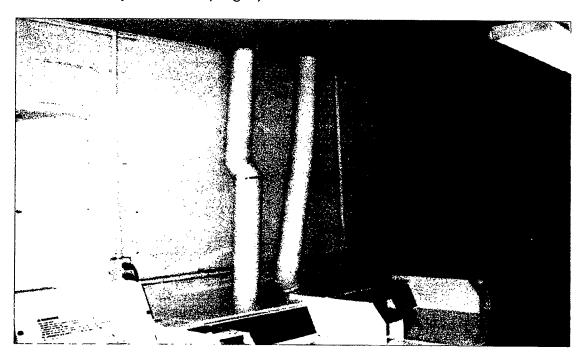


Photo 14: Laundry Room walls, ducts (Bldg 12)

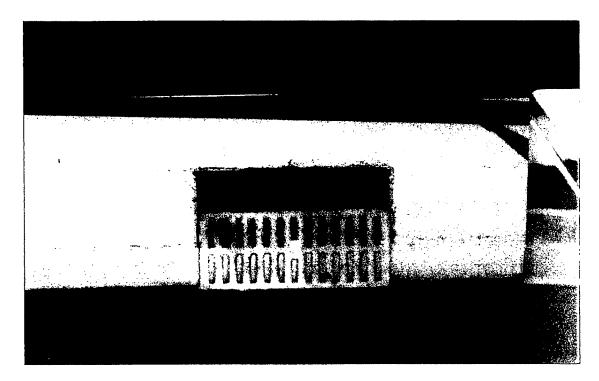


Photo 15: Air Vent on the laundry-boiler room common wall (Bldg 12)



Photo 16: Laundry Floor with the drainage duct (Bldg 12)

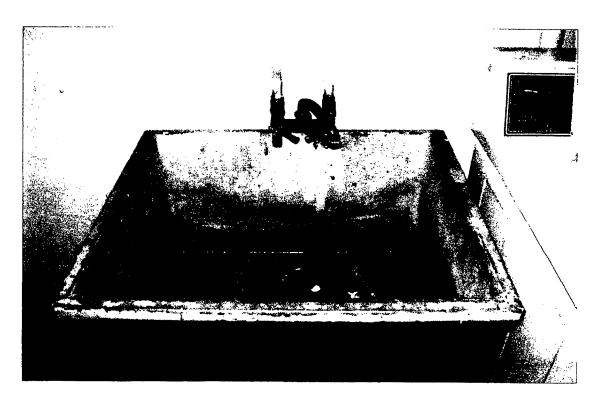


Photo 17: Laundry Room Sink (Bldg 12)

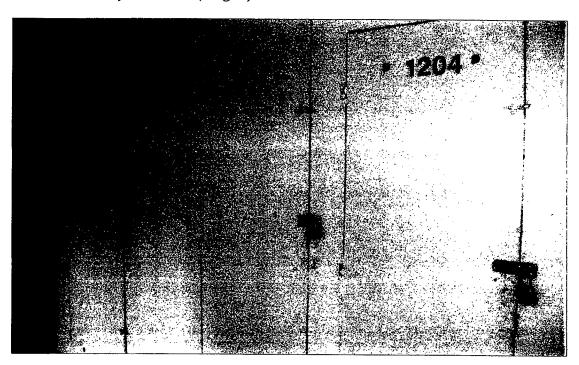


Photo 18: Landry Room Storage Area (Bldg 12)

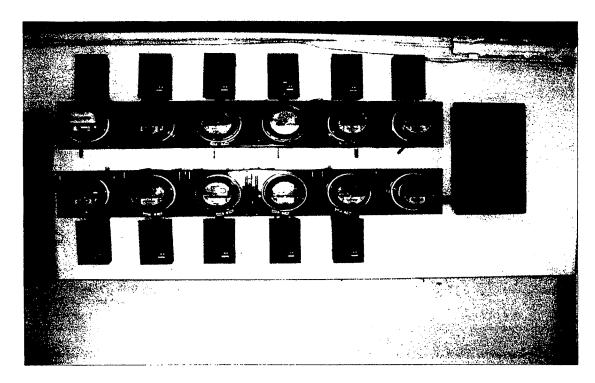


Photo 19: Laundry Room (Bldg 12)

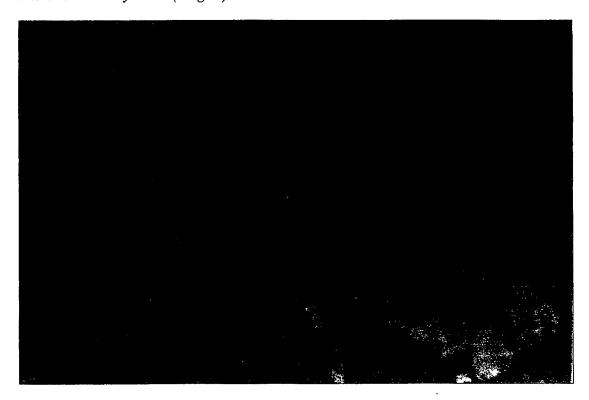


Photo 20: Laundry Room Floor (Bldg 12)

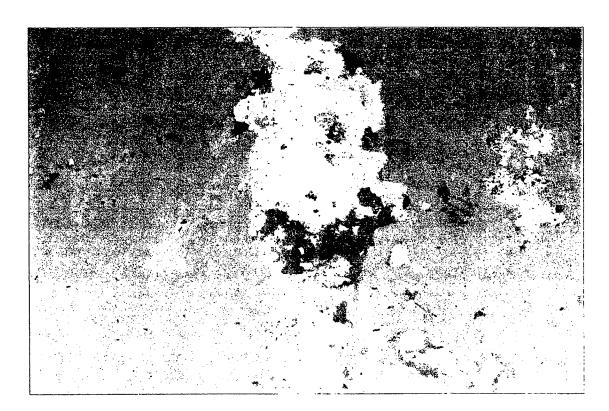


Photo 21: Laundry Room Floor (Bldg 12)



Photo 22: Boiler Room (Bldg 12)

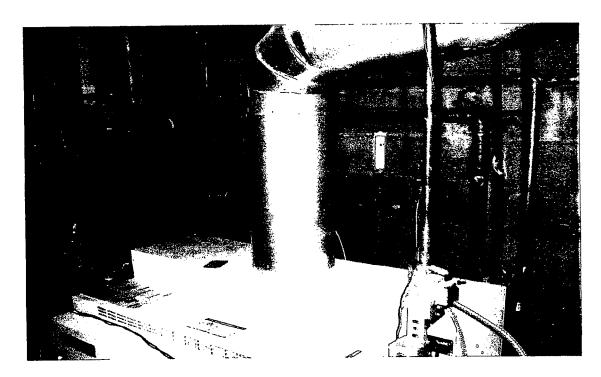


Photo 23: Boiler Room (Bldg 12)

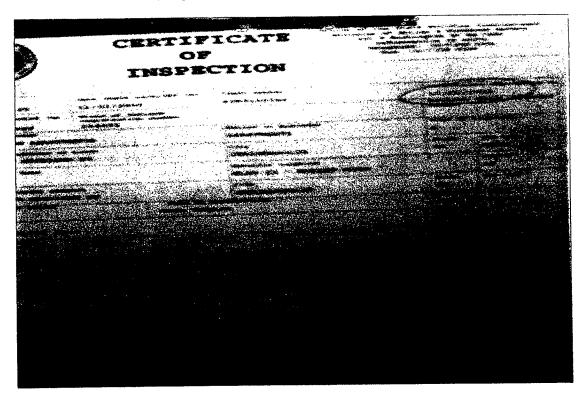


Photo 24: Boiler Room – Certificate of Inspection (Bldg 12)

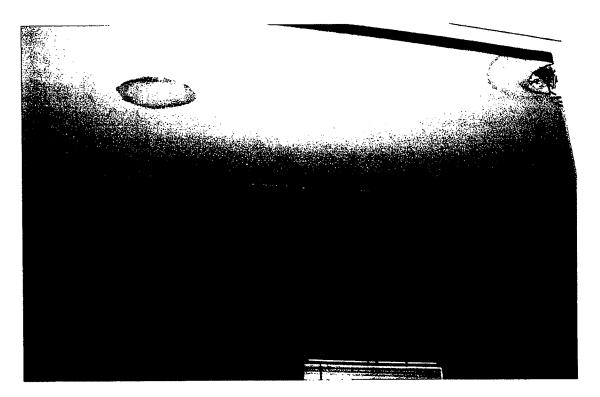


Photo 25: Basement Apartment Ceiling (Leak from the first floor bathroom)- Bldg 12

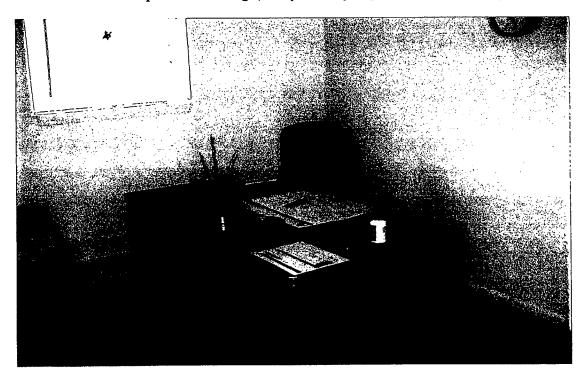


Photo 26: Basement Apartment inside (Bldg 12)



Photo 27: First Floor-Building 12



Photo 28: Second Floor-Building 12

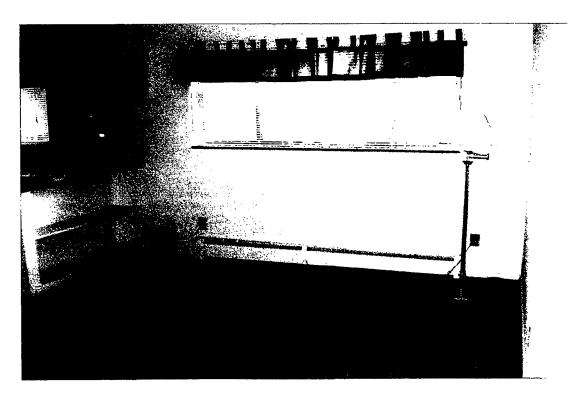


Photo 29: Apartment Living Area-Building 12

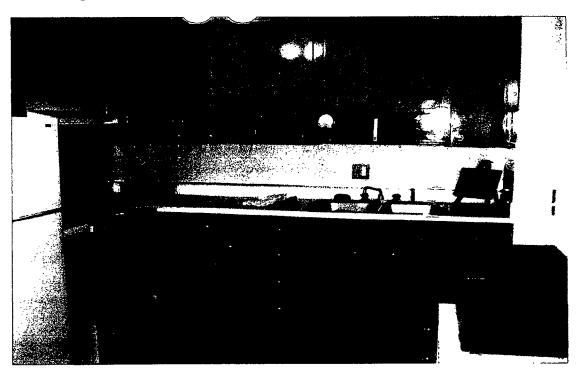


Photo30: Apartment Kitchen-Building 12



Photo 31: Apartment Dining-Building 12



Photo 32: Apartment Bedroom-Building 12

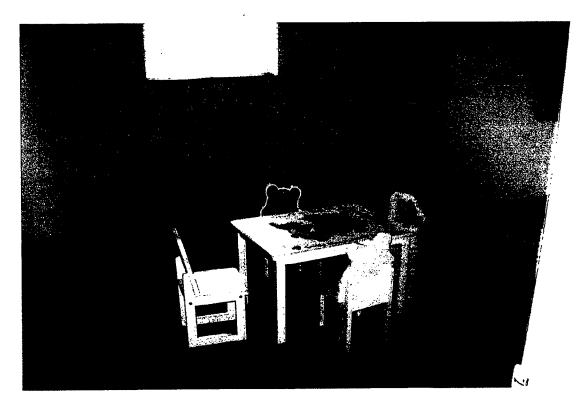


Photo 33: Apartment Bedroom 2-Building 12



Photo 34: Apartment Bathroom-Building 12



Photo 35: Maintenance Shop Building



Photo 36: Maintenance Shop Building from Inside

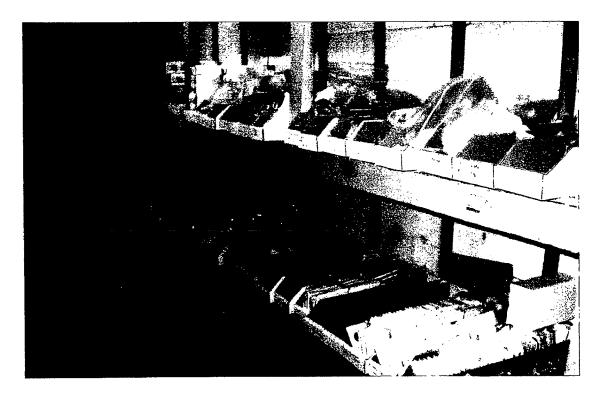


Photo 37: Maintenance Building Inside

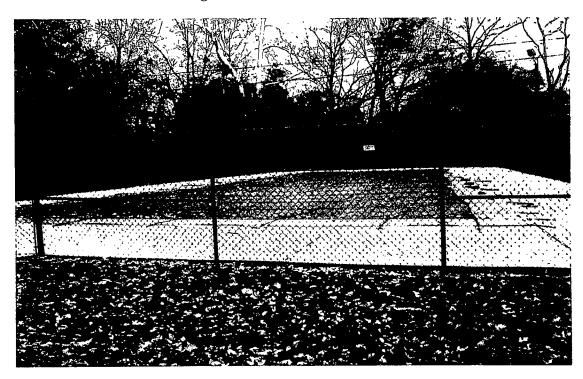


Photo 38: Swimming Pool



Photo 39: Playground Area

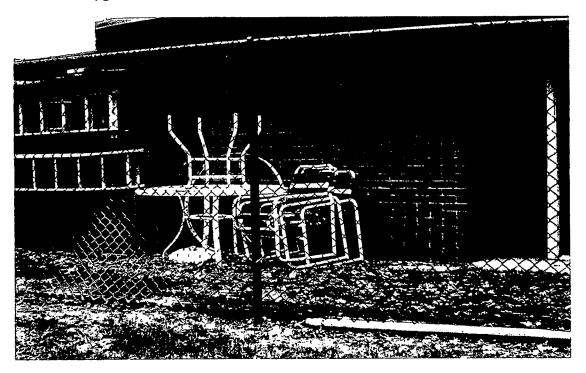


Photo 40: Maintenance Shop Backside Area

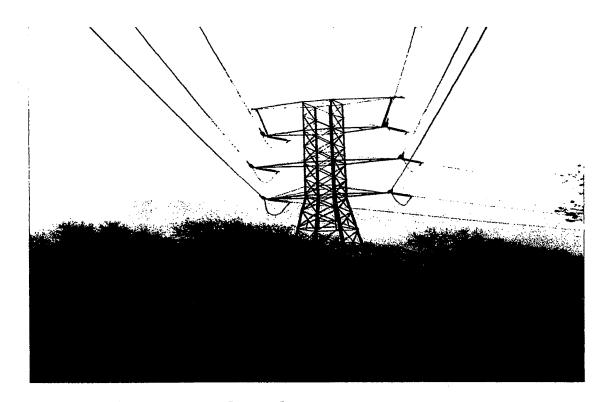


Photo 41: High Capacity Power Line on the property

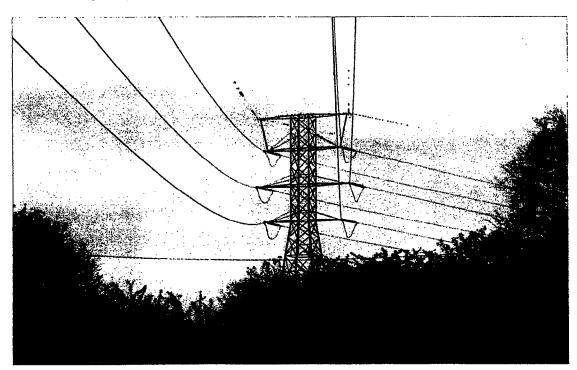


Photo 42: High Capacity Power Line North of the property

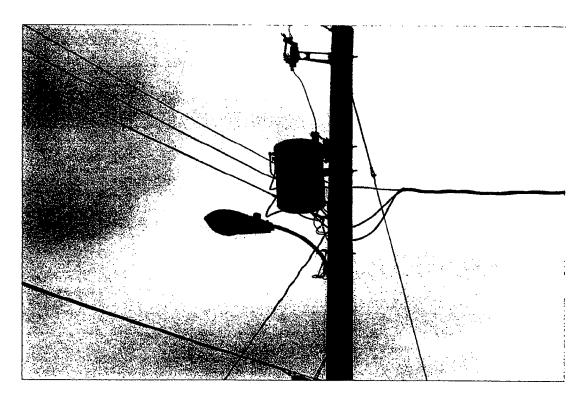


Photo 43: Pole Mounted Electrical Transformer on site

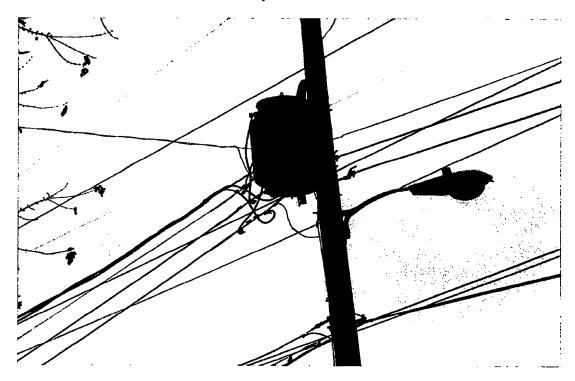


Photo 44: Electrical Transformer

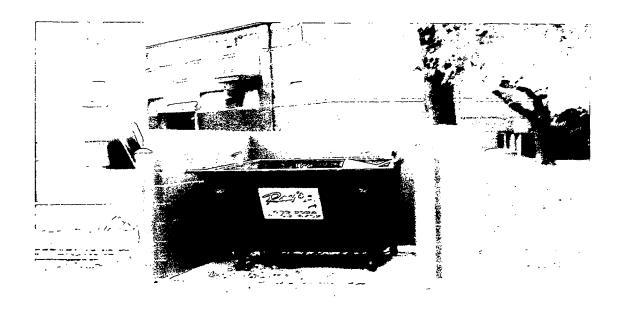


Photo 45: Dumpster



Photo 46: Dumpster

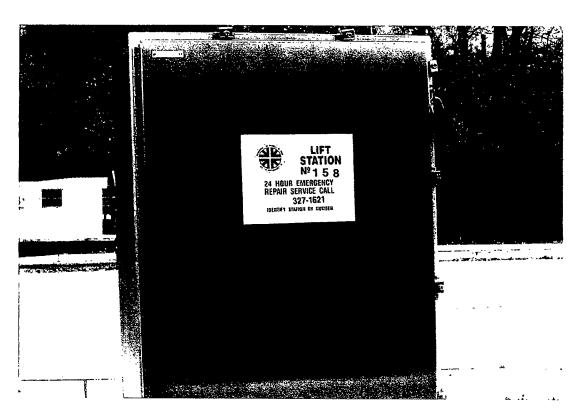


Photo 47: Lift Station at the southeast corner of the property.

APPENDIX B

Historical Records

- Sanborn Maps
- City Directories
- CEM Past Property Ownership/Use

APPENDIX B

Historical Records

- Sanborn Maps
- City Directories
- CEM Past Property
 Ownership/Use



"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Leena Lothe

Order Date: 10/29/2003

Completion Date: 10/29/2003 1:58

Mundell & Associates, Inc

Inquiry #: 1073238.5S

City/State: Indianapolis, IN 46249

429 E Vermont

P.O. #: na

Indianapolis, IN 46202

Site Name: Michigan Plaza Shopping Center

Address: 3800/3801-3823 W Michigan St

Customer Project:na

1012355ROG

317-630-9060

Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1915 - 1 - map

1950 - 1 - map

1956 - 1 - map

1963 - 1 - map

1965 - 1 - map

1967 - 1 - map

Total Maps: 6

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"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Leena Lothe

Customer Project: na

Order Date: 10/29/2003

Completion Date: 10/29/2003 1:58

Mundell & Associates, Inc

Inquiry #: 1073238.5S

429 E Vermont

P.O. #: na

Indianapolis, IN 46202

Site Name: Michigan Plaza Shopping Center

Address: 3800/3801-3823 W Michigan St

City/State: Indianapolis, IN 46249

1012355ROG

317-630-9060

Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1915 - 1 Map

1950 - 1 Map

1956 - 1 Map

1963 - 1 Map

1965 - 1 Map

1967 - 1 Map

Total Maps: 6

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Thank you for your interest in electronic Sanborn Map images. The following are guidelines for accessing the images and for transferring them to your system. If you have any questions about the use of electronic Sanborn Map images, contact your EDR Account Executive at 1-800-352-0050.

Organization of Electronic Sanborn Image File

First Page Sanborn Map Report, listing years of coverage Second Page Electronic Sanborn Map Images USER'S GUIDE

Third Page Oldest Sanborn Map Image
 Last Page Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

- Open file on screen.
- Identify TP (Target Property) on the most recent map.
- Find TP on older printed images.
- Using Acrobat, zoom to 250% in order to view more clearly.
 - 200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.
- Zooming in on an image:
 - On the menu bar, click "View" and then zoom.
 - Use the magnifying tool and drag a box around the TP area.

Printing a Sanborn Map from the Electronic File

- EDR recommends printing all images at 300 dpi (300 dpi prints faster than 600 dpi).
- To print only the TP area, cut and paste the area from Adobe Acrobat to your word processor.

Acrobat Version 4

- Go to the Menu bar
- Press and hold the "T" button
- · Choose the Graphics Select Tool
- Draw a box around the area selected
- Go to "Menu"
- Highlight "Edit"
- Highlight "Copy"
- Go to a word processor such as Microsoft Word, paste and print.

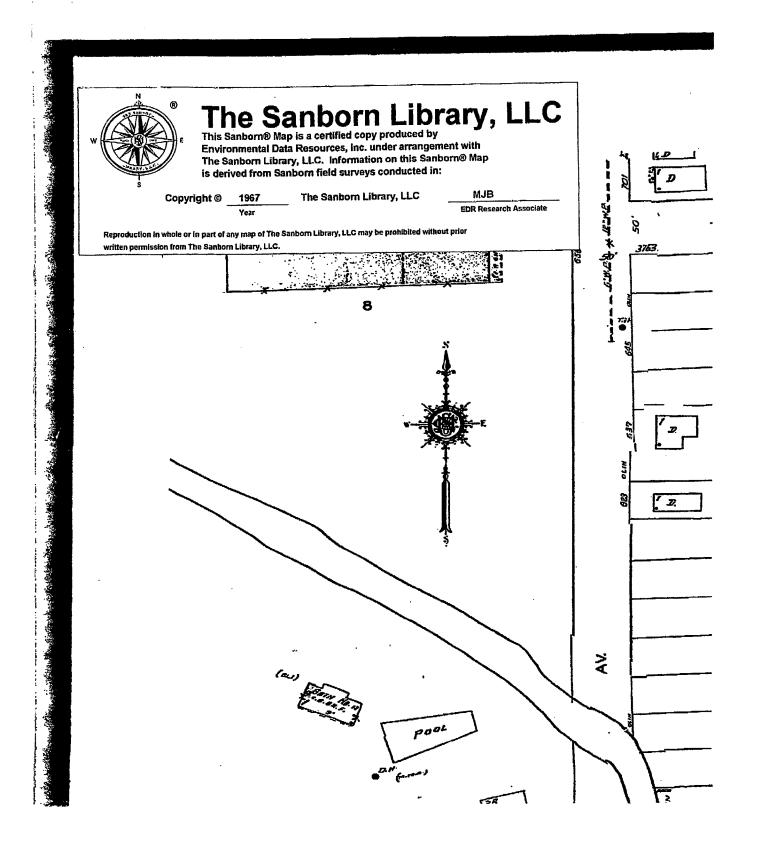
Acrobat Version 5

- Go to the Menu Bar.
- Click the "Graphics Select Tool"
- Draw a box around the area selected
- · Go to "Menu"
- Highlight "Edit"
- Highlight "Copy"
- Go to a word processor such as Microsoft Word, paste and print.

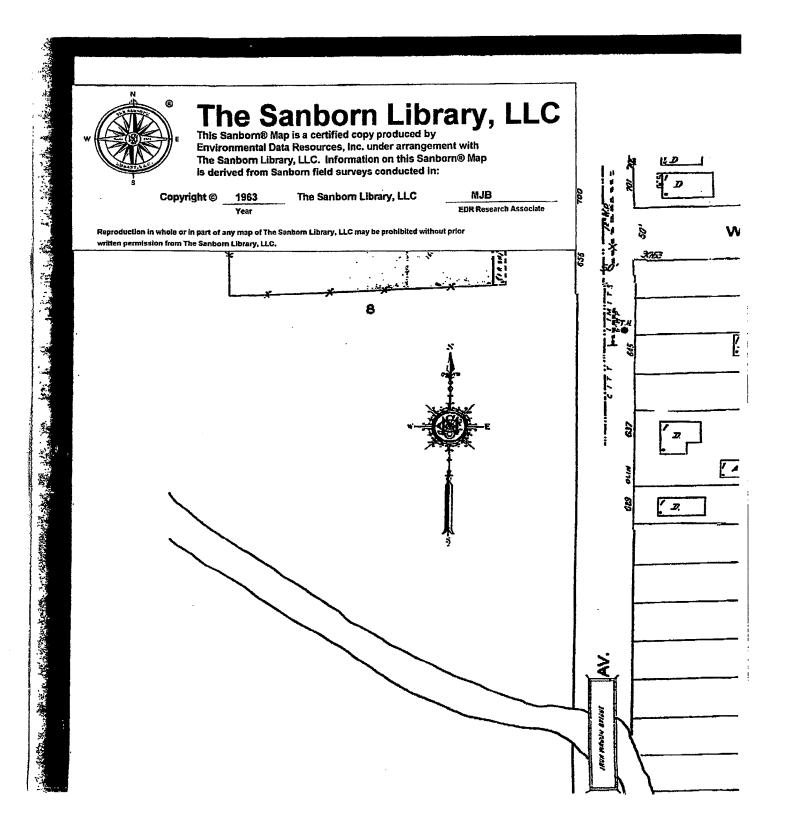
Graphics Select Tool (G)

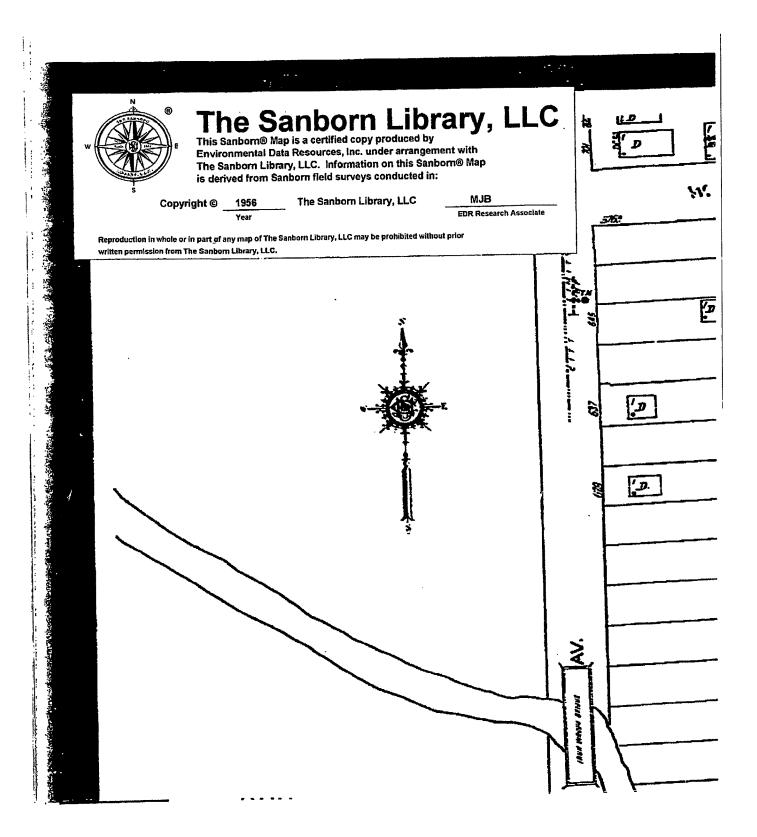
Important Information about Email Delivery of Electronic Sanborn Map Images

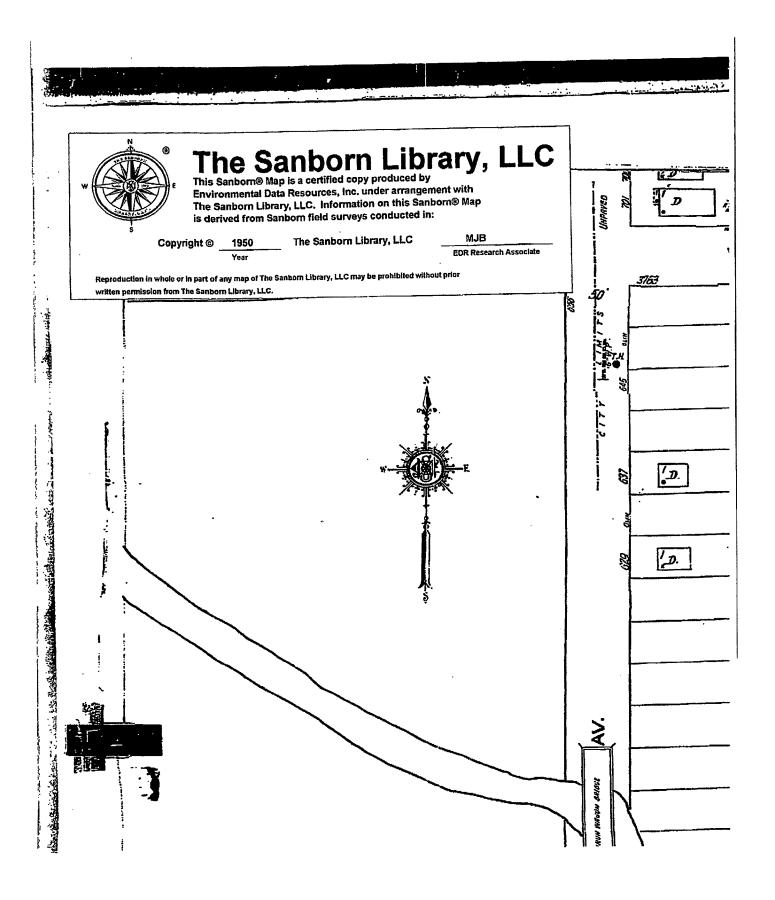
- Images are grouped into one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically
 exceeds 2MB. In these cases, you will receive multiple files, labeled as 1 of 3, 2
 of 3, etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.

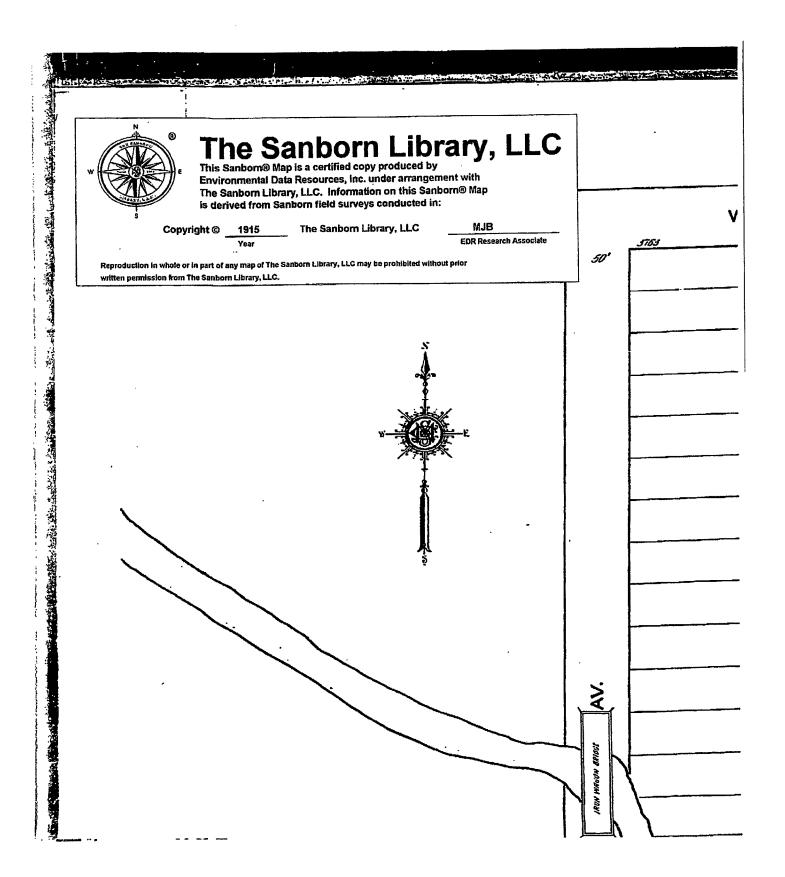


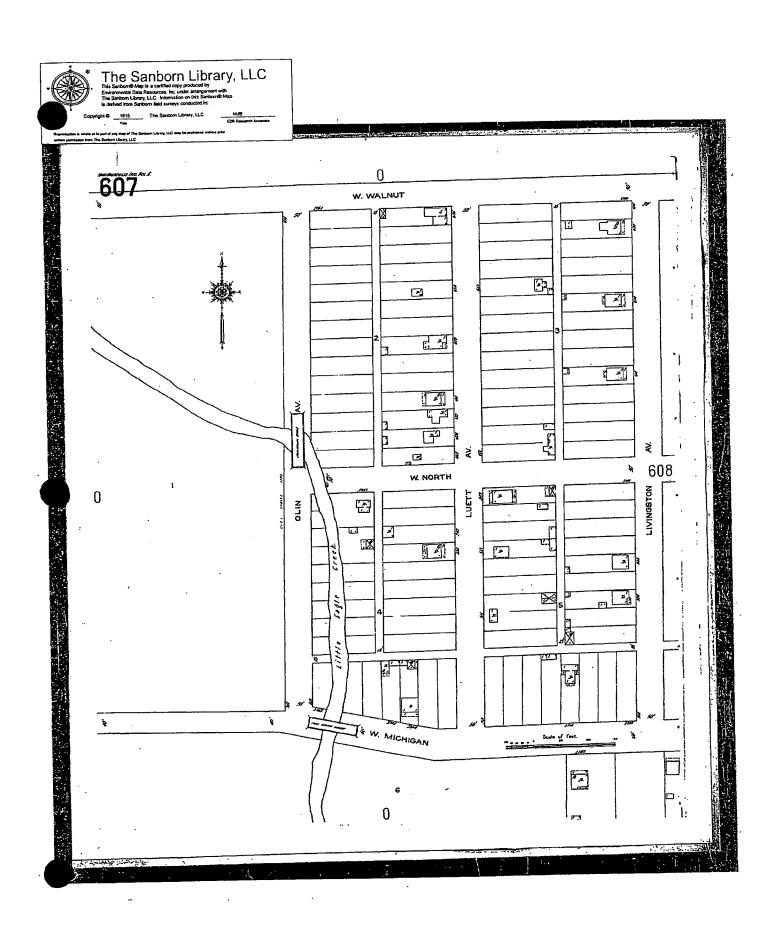


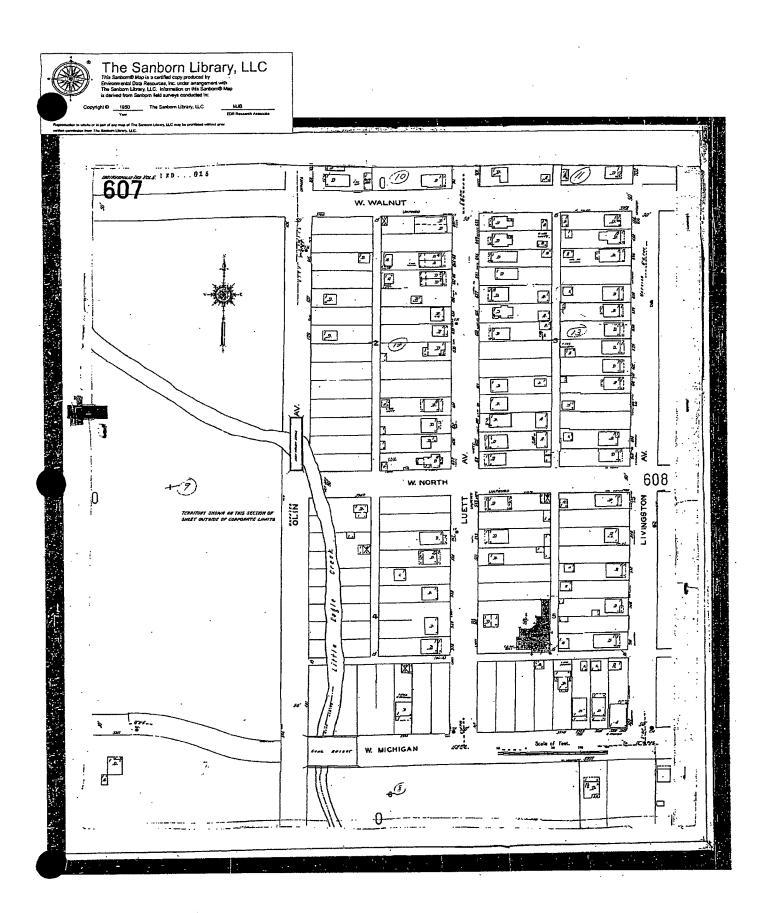


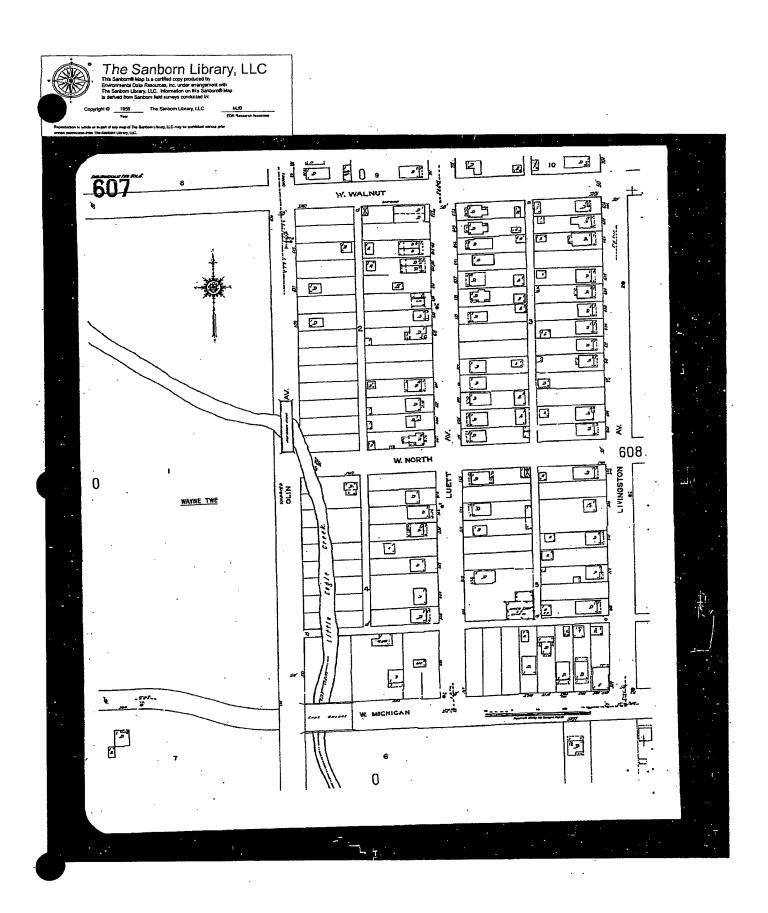


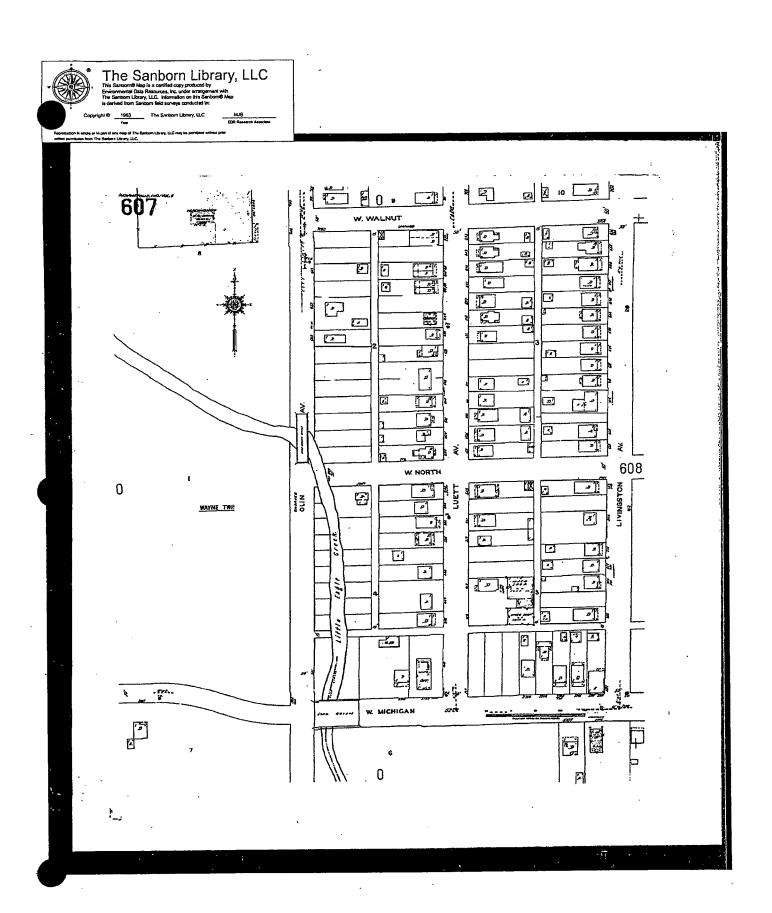


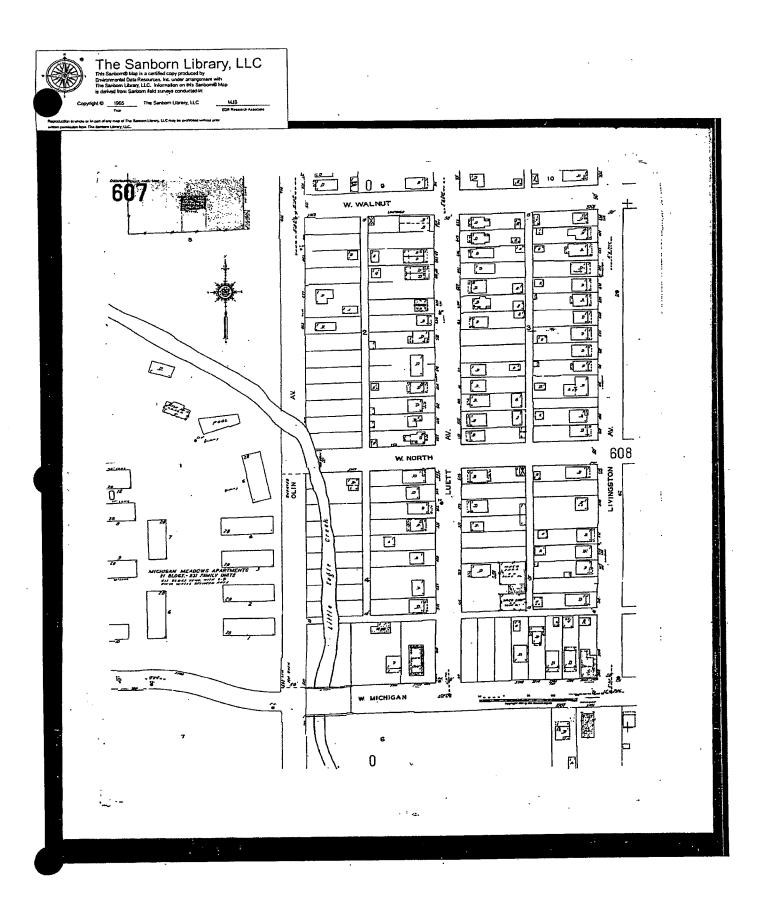


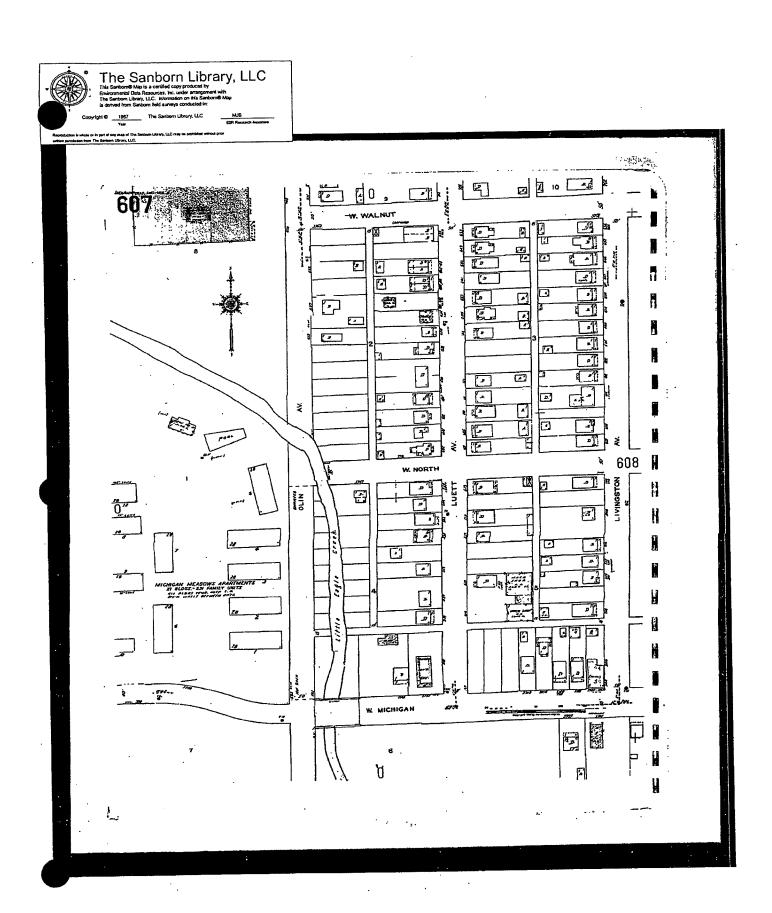














The EDR-City Directory Abstract

Michigan Plaza Shopping Center 3811 W Michigan St Indianapolis, IN 46249

October 29, 2003

Inquiry Number: 1073238-8

The Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050

Fax: 1-800-231-6802

Environmental Data Resources, Inc. City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of reasonably ascertainable standard historical sources. Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following standard historical sources may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires "All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful." (ASTM E 1527-00, Section 7.3.4, page 12.)

EDR's City Directory Abstract includes a search and abstract of available city directory data.

City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1527-00 specifies that a "review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice." (ASTM E 1527-00, Section 7.3.4, page 12.)

NAICS (North American Industry Classification System) Codes

NAICS is a unique, all-new system for classifying business establishments. Adopted in 1997 to replace the prior Standard Industry Classification (SIC) system, it is the system used by the statistical agencies of the United States. It is the first economic classification system to be constructed based on a single economic concept. To learn more about the background, the development and difference between NAICS and SIC, visit the following Census website: http://www.census.gov/epcd/www/naicsdev.htm.

> Please call EDR Nationwide Customer Service at 1-800-352-0050 (8am-8pm EST) with questions or comments about your report. Thank you for your business!

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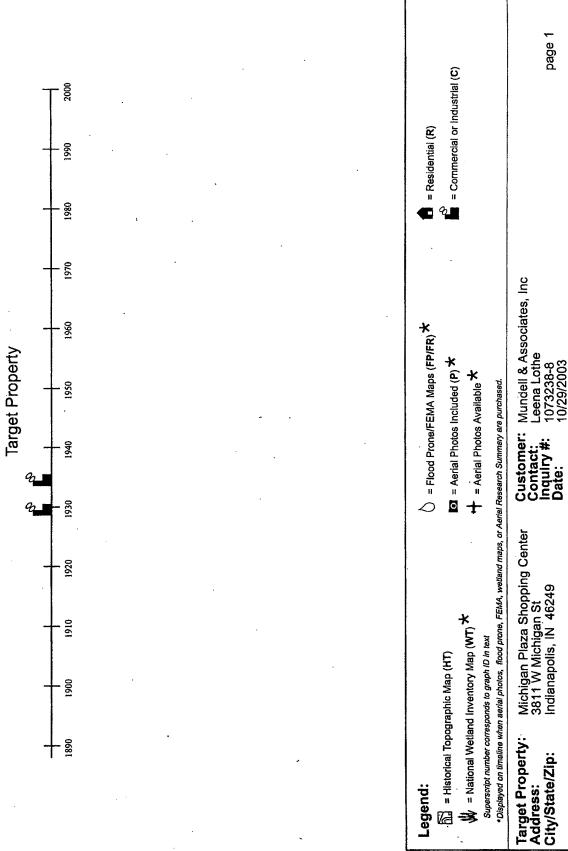
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Prior Use Report® Timeline



4. SUMMARY

City Directories:

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2000. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

This report compiles information by geocoding the subject properties (that is, plotting the latitude and longitude for such subject properties and obtaining data concerning properties within 1/8 of a mile of the subject properties). There is no warranty or guarantee that geocoding will report or list all properties within the specified radius of the subject properties and any such warranty or guarantee is expressly disclaimed. Accordingly, some properties within the aforementioned radius and the information concerning those properties may not be referenced in this report.

Date EDR Searched Historical Sources:

Target Property: 3811 W Michigan St Indianapolis, IN 46249

PUR ID			
<u>Year</u>	<u>Uses</u>	<u>NAICS</u>	Source
1920	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1925	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1930	POTTER JOHN A(R)GRO (3811)		R. L. Polk & Co.
 1935	OLIVER CLARENCE B (3811)		R. L. Polk & Co.
1945	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1949	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1954	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1957	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1959	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1962	Address not Listed in Research Source	N/A	R. L. Polk & Co.
 1964	Address not Listed in Research Source	N/A	R, L. Polk & Co.
1970	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1973	Address not Listed in Research Source	N/A	R. L. Polk & Co.
	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1978	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1980	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1985	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1986	Address not Listed in Research Source	N/A	R. L. Poik & Co.
1990	Address not Listed in Research Source	N/A	R. L. Polk & Co.
1991	Address not Listed in Research Source	N/A	R. L. Polk & Co.
2000	Address not Listed in Research Source	N/Å	Haines & Compan

Adjoining Properties

SURROUNDING Multiple Addresses Indianapolis, IN 46249

DENSHAM EARL T (3937) BAUGH WIN T(R) (3938)

Indianapolis, IN 46249						
	PUR ID <u>Year</u>	<u>Uses</u>		<u>NAICS</u>	<u>Source</u>	
	1920	** TOMLINSON Addresses **			R. L. Polk & Co.	
		HENRY AURS (523)			R. C. Folk & Co.	
		LAFAYETTE MURPHY (536)				
		HUBERT W ADAMS CONTR (540)				
		ALB 0 ROUNDER (544)				
•		BARTLETT L PROPST (547)	•			
		MARSHALL F GOLDEN (550)				
		LEE R TAYLOR (556)				
	1925	Address not Listed in Research Source	:	N/A	R. L. Polk & Co.	
	1930	** OLIN AVE Addresses **			R. L. Polk & Co.	
		CRANDALL (N) CHAS B (450)				
		** TOMLINSON Addresses **				
		Unknown (506)				
		Unknown (523)				
1		Unknown (536)				
		Unknown (540)		•		
		Unknown (542)		•		
	•	Unknown (544)				
		Unknown (547)		•		
		Unknown (550)		•		
		Unknown (556)		,		
		** MICHIGAN W Addresses **			•	
		SUDDITH GUY (3748)				
		DENNEY WNM (3815)		•	•	
		SMITH JAS W (3819)				
		FRUITS OREN (3821)				
		OWEN WN (3822)				
		MCQULSTON SAMI (3824)			•	
		SMALILMAN IDA MRS0 (3825)				
		WHITAKER ALVA HO (3837)			•	
		BENNOTT CIARENCE W0 (3841)				
		SCHAUB OSCAR W(R) (3926)				
		KELLER GEO W(R) (3936)				

PUR ID **NAICS** Source <u>Year</u> Uses 1930 (continued) SPRINGER LOUIS C (3939) ** MICHIGAN W Addresses ** 1935 R. L. Polk & Co. WNILTS WALTER H (3748) AKERS JOS A(R) (3815) SMITH JAS WO (3819) TEDRICK WM (3821) NELSON JAS N(R) FE (3822) MEQULOTON SAINIR (3824) GELAA TERRY(R) (3825) WHITAKER ALVA ER (3837) TAYLOR TUSSELL H F (3841) REARWESSON MOOREM (3926) SOHAUB OSCAR W(R) (3926) RAMSEY MUEMMS (3936) KICLOETIS JOB (3937) S BAUGH WIN TF (3938) SPRLNGER LOUIS CR INTERIOR DECORATO (3939) R. L. Polk & Co. N/A Address not Listed in Research Source 1945 R. L. Polk & Co. N/A 1949 Address not Listed in Research Source N/A R. L. Polk & Co. Address not Listed in Research Source 1954 R. L. Polk & Co. Address not Listed in Research Source N/A 1957 R. L. Polk & Co. N/A Address not Listed in Research Source 1959 R. L. Polk & Co. Address not Listed in Research Source N/A 1962 R. L. Polk & Co. N/A Address not Listed in Research Source R. L. Polk & Co. N/A 1970 Address not Listed in Research Source 1973 ** TOMLINSON N ST Addresses ** R. L. Polk & Co. WILSON ROBT D (506) PHEBUS GLADYS M MRS (509) SPRINGER WALTER (523) STOCKING CHARLES E (524) **BUCHANAN GEO H (530)** MILLER W EDW (534) TOMLINSON BRICE L (544) MOORE JOHN E (545) MILLER ANNETTA H MRS (547) TAYLOR JOSEPH G (548)

PUR ID <u>Uses</u> **NAICS** Year <u>Source</u> 1973 (continued) GAUS WM H (549) BROCKMAN EDW R (554) ** W MICHIGAN ST Addresses ** BANKS JOSEPH J (3800) GEARRIES JOYCE K (3800) HUTCHESON SHARON MRS (3800) KLAUSNER JOSEPH (3800) MICHIGAN MEADOWS APTS (3800) RIDENOUR JOYCE L (3800) SIEGRIST THOS A (3800) SINGLETON JUDY (3800) SMITH CHARLES E (3800) SPARKS JAMES F (3800) TIMOTHY PAUL B (3800) SHORT STOP MARKET (3801) MICHIGAN PLAZA PHARMACY (3805) VACANT (3807) N/A N/A VACANT (3809) INDIANAPOLIS MARION COUNTY PUB LIBRARY (3815) COX JOHN L (3817) ACCENT CLEANERS (3819) MICHIGAN PLAZA COIN LNDRY (3823) OLMHTED BURTON L (3835) . CLOE GEO E (3839) NO RETURN (3926) JOHNSON HORACE D (3927) **GUERECA TIMOTHY (3928)** JOHNSON JOHN (3931) KONRAD THOS E (3936) ARROWS TAXIDERMY (3937) EADS ROBT (3937) SHAW CLARENCE E (3938) APPLEGATE MICHI (3939) BURR HOWARD (3949) N/A R. L. Polk & Co. 1975 Address not Listed in Research Source ** MICHIGAN W ST Addresses ** 1978 R. L. Polk & Co. MICHIGAN MEADOWS APTE (3800) SHORT STOP MARKET (3801) VACANT (3805) N/A PLAZA BOUTIQUE SALON (3807)

PUR ID NAICS Source Year 1978 (continued) VACANT (3809) N/A INDIANAPOLIS MARION COUNTY PUB LIBRARY (3815) COX JOHN L (3817) ACCENT DRY CLEANING (3819) MICHIGAN PLAZA COIN LNDRY (3823) OLMSTEAD BURTON L (3835) CLOE GEO E (3839) WELBORN ARTH L (3939) BURR HOWARD L (3949) DUNCAN LEE V (3950) N/A R. L. Polk & Co. Address not Listed in Research Source 1980 Address not Listed in Research Source N/A R. L. Polk & Co. 1985 ** TOMLINSON N ST Addresses ** 1986 R. L. Polk & Co. WILSON ROBT D (506) DILLENDR ERNEST E 24 M (509) BO DG MARGT L (523) STOCKING DOROTHY A MRS (524) TORNLINSON BRICE L (544) NO RETURN (545) COSSELL CHARLES I (547) DILLON CHEASTER L (548) BLANKENOHIP JOHNNY L (556) ** W MICHIGAN ST Addresses ** LAMM CONNLE (3800) MICHIGAN MEADOWS APTS (3800) NO RETURN (3800) NO RETURN (3800) ORUNDY JATMES R (3800) STAPP JOYCE F MRS (3800) VILLAGE PANTRY GRO (3801) ME CLOUD PEST CONTROL (3809) INDIANAPOLIS MARION COUNTY PUB LIBRARY (38)5) COX JOHN L (3817) ACCENT DRY CLEANING (3819) MICHIGAN PLAZA COIN LINDRY (3823) OLMSTED BURTON L (3835) CLOE GEO (3839) OSTING HAROLD L (3939) BURR HOWARD L (3949) NO RETURN (3950)

PUR ID **NAICS** Source <u>Uses</u> <u>Year</u> R. L. Polk & Co. N/A 1990 Address not Listed in Research Source ** TOMLINSON N ST Addresses ** 1991 R. L. Polk & Co. WILSON ROBT D (506) DILLENDER ERNEST E (509) BOGGS MARGT L (523) STOCKING DOROTHY A MRS (524) CRAIL ROBT E (530) CAINE SALLY S (534) TOMLINSON BRICE L (544) ARMSTRONG JOSEPH L (545) PRESLEY DICK (547) N/A VACANT (548) WISE MARY A MRS GAUS WM H (549) BROCKMAN EDW R (554) BLANKENSHIP JOHNNY L (556) ** HOLT RD Addresses ** 2000 Haines & Compar XXXX 00 (501) RICHARDSON LEONARD (502) FELIX P A (505) XXXX 00 (507) CLARK ROBT E (511) WOOLUMS J S (512) XXXX 00 (513) MILLER BURLESS D (516) CHILDERS JASON (520) XXXX 00 (524) XXXX 00 (526) FARLOW ROBT N (527) XXXX 00 (529) ALBRECHT LAURA M (531) SENESAC LESLI (542) XXXX 00 (543) AMER LEGION 64 (601) ** TOMLINSON Addresses ** WILSON ROBT D SR (506) CARDWELL STEVE (509) XXXX 00 (523) SWATTS DOROTHY (524) XXXX 00 (530)

CAINE S S (534)

PUR ID

Year Uses 2000 (continued)

TOMLINSON B L (534)

MARTIN SHARON (545)

MARTIN TERRENCE (545)

PRESLEY M (547)

CLOUD DOUGLAS A (548)

GAUS WM H (549)

BRACKEN MATHEW R (554)

BLANKENSHIP MARY (556)

** MICHIGAN W Addresses **

ABRON CRISSY (3800)

ADAMS CURTIS (3800)

ALLOCCO VICTORIA (3800)

ALVARADO SALVADOR (3800) .

ARRIAGA RENA (3800)

ARTEAGA ANTONIO (3800)

AVANT KIMBERLY (3800)

AYRE THOMAS A (3800)

BANKS LISA (3800)

BAUGH R (3800)

BAUTISTA VICTORIA (3800)

BECERRIL ALVARO (3800)

BLOCK JERRY (3800)

BOWLING ROSS S (3800)

BOWMAN EDWARD (3800)

BROOKS ANTHONY (3800)

BROSHOUS E A (3800)

BROWN BETTY (3800)

BUENO JUANITA B (3800)

BUI XE T (3800)

BUNTEN JOHN R (3800)

BUTLER AMANDA (3800)

CABRERA OBDULIA (3800)

CALDERON GERMAN (3800)

CALOWELL D (3800)

CAMBRON JOSE MANUEL (3800)

CAMERON R G (3800)

CARTER A (3800)

CARTER KAREN (3800)

CASTRO RAFAEL M (3800)

CORREA BEATRIZE F (3800)

COX J L (3800)

DAVIS J (3800)

NAICS

Source

PUR ID

Year Use

2000 (continued)

DILLARD TALESHA (3800)

NAICS

Source

DONALD DENISE (3800),

ESLAVA MAXIMINO (3800)

FITZPATRICK GEN (3800)

GADDIS J R (3800)

GARRETT JAMES M (3800)

GLASPER N H (3800).

GONZALEZ BLANCA (3800)

GONZALEZ GANTER (3800)

GONZALEZ JOSE MANUEL (3800)

GONZALEZ NORMA (3800)

GOSE E (3800)

GOURLEY BRIDGET A (3800)

GROW MIKE (3800)

GUILLEN PEDRO (3800)

HAASE BERTA (3800)

HALL THOMAS R (3800)

HAMMER WM (3800)

HAMMOND JOHN (3800)

HAWKINS DAVID (3800)

HINER DOROTHY (3800)

JACKSON \$ (3800)

JENNINGS WAYNE (3800)

JOHNSON L S (3800)

JONES LAKETHIA (3800)

KADAKIA TUSHER (3800)

KENNEBREW M (3800)

KENNETT P R (3800)

KIM DAE HEE (3800)

KING MAXINE (3800)

KNOPPKIE MARVIN (3800) LAFOLLETTE LARRY (3800)

LAREAU DOUGLAS (3800)

LAWRENCE JR (3800)

LEBO S (3800)

LEDMAN JOHN (3800)

LEE D (3800)

LEE J (3800)

LIMBROCK A (3800)

LOCKHART W (3800)

MANN JULIE (3800)

MARTIN TONY (3800)

PUR ID
Year Uses
2000 (continued)

<u>NAICS</u>

Source

MARTINEZ DARRO (3800)

MARTINEZ MANO (3800)

MAZARIEGOS MARLENY (3800)

MCGAIRK CHRISTINA (3800)

MCWILLIAMS KIP (3800)

MEDARIS MARGARET (3800)

MI APARTMENTS (3800)

MICHIGAN MDWS APTS (3800)

MONTESDEOCA REYNALDO (3800)

MORALES GERMAN (3800)

MOREL GAIL (3800)

MORGAN CHARLES W SR (3800)

MORRIS TERESA (3800)

MURCIA DELMI G (3800)

MURRELL BYRON (3800)

MURRELL MELISSA (3800)

NDONGO PATRICE A (3800)

NIMYLOVYCH JURIJ A (3800)

NORHAZLIN ABU HASAN (3800)

OROZCO JAIME (3800)

OUTLAW WM T JR (3800)

PABLO GUADALUPE (3800)

PARKER TARSHA L (3800)

PATTERSON AARON (3800)

PEOPLES ANDREW (3800)

PEREZ SEFENINO (3800)

PINEDA INS (3800)

POULAKOS ALICE (3800)

PRICE MANE A (3800)

PUCKETT CAROL (3800)

RAMSEY CRYSTAL (3800)

REED CHRISTEN (3800)

RENTON FREDERICK (3800)

ROBINSON CLARA (3800)

ROWLETTE G (3800)

SAMBA NATHANIEL S (3800)

SANTOS CESAR AUGUSTO (3800)

SANTOS MRRIAM NOEMI (3800)

SCHWENDEMAN (3800)

SCOTT M E (3800)

SENA RACHAEL (3800)

SLAUGHTER TAMEKA (3800)

1073238-8 11 **PUR ID**

Year <u>Uses</u> 2000 (conti

SMITH ZELMA (3800)

SOTO JOSE J (3800)

STARKS KAREN (3800)

STOWERS JOHN (3800)

STOWERS MARY (3800)

SULLIVAN JOSEPH M (3800)

TAYLOR ROBT (3800)

THISPLETHWAITE MISTY RENEE (3800)

NAICS

Source

THOMAS STANLEY (3800)

THOMAS VERNON (3800)

THOMPSON CORA (3800)

UBELHOR GEORGETTE (3800)

WATKINS CLEO (3800)

WHITLOCK F D (3800)

WILLEY SARAH (3800)

WILLIAMS KAREN (3800)

WOLFLA J M (3800)

WYNNE JAMES (3800)

Unknown (3800)

VILLAGE PANTRY (3801)

LIBRARIES-PUBLIC-BRANCH (3805)

XXXX 00 (3807)

ALLSTATE INS SALES (3809)

AMONETT CHERYL (3809)

FITTS CHARLIE (3809)

CTY CO LBRY (3815)

NATL HANDICAPPED WORKSHOP INC (3815)

COX ALFEROCINA (3817)

XXXX 00 (3819)

BUSTIN BUBBLES LAUNDRY (3823)

XXXX 00 (3830)

OLMSTED BURTON L (3835)

HELTON J (3839)

XXXX 00 (3939)

BURR HOWARD L (3949)

XXXX 00 (3950)

1073238-8

12

Prior Ownership History Parcel 9010112 (Apt complex)

W19780109 19780109 Eades, David C & Warranty Roy H Lambert deed "/ 2

Fades, David C & Roy H Lambert % Regency Windson Co Suite 1-5.

700 Olin Avenue: Parcel 9035493

TAX DISC: 901

USE: 340.

PROP LOC: 700 OLIN

Deed Type W Date 09/27/2002

Land Imp 171,800 393,500

Total 565,300

Pancel Status: Active

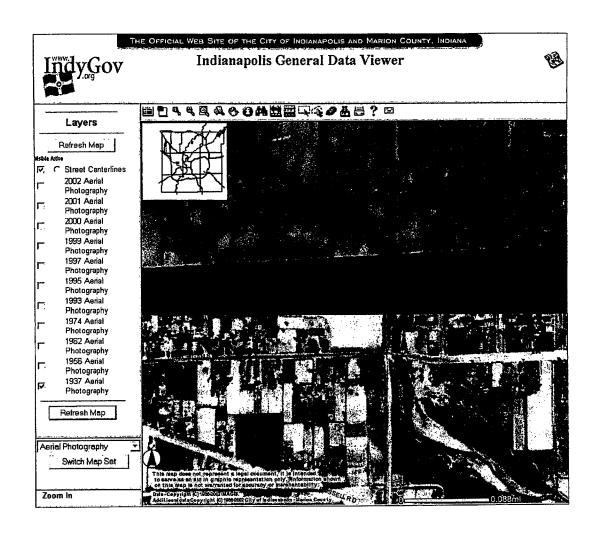
Acerage : 4.9180

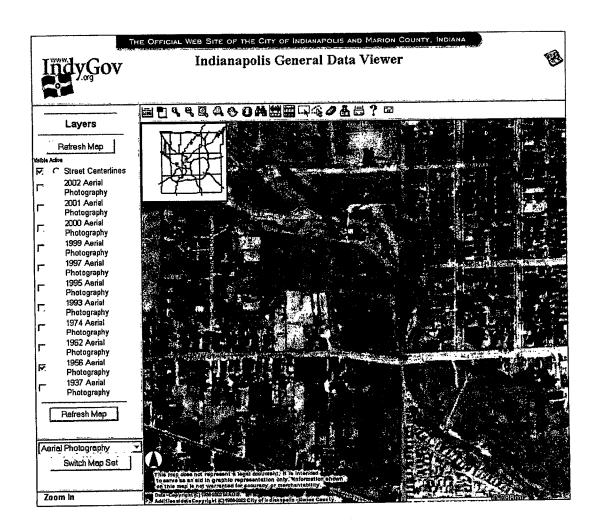
Prior Ownership History Parcel 9035493

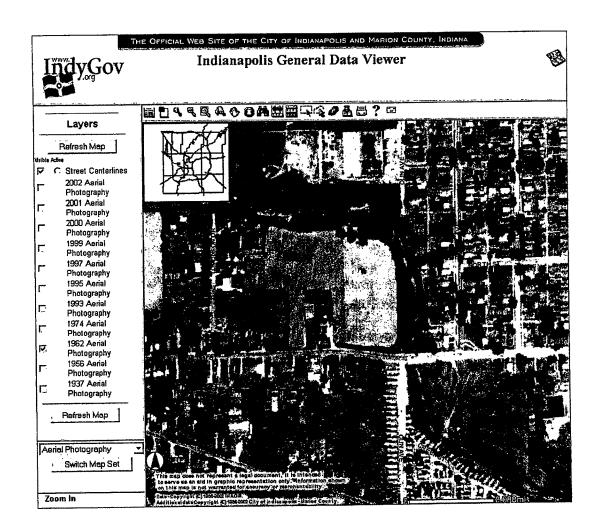
W 1998 1230 1998 1231 Associated Properties Services Inc. A/K/A Associated Property Services Inc.

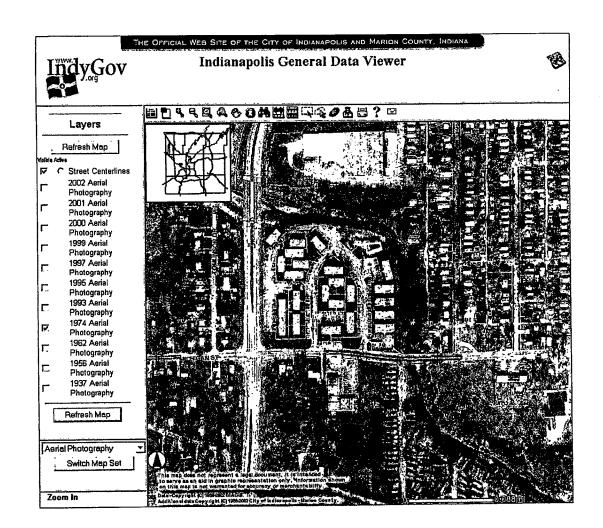
C 19931129 19931206 AEC Aquisition Corp % Allison Engine Co. Mail Drop V 27

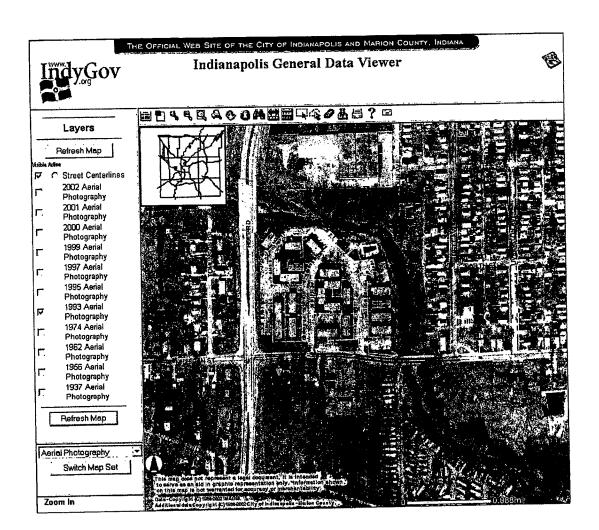
W 19770304 19770304 General Motors Corp. C/o Allison Gas Turbine División

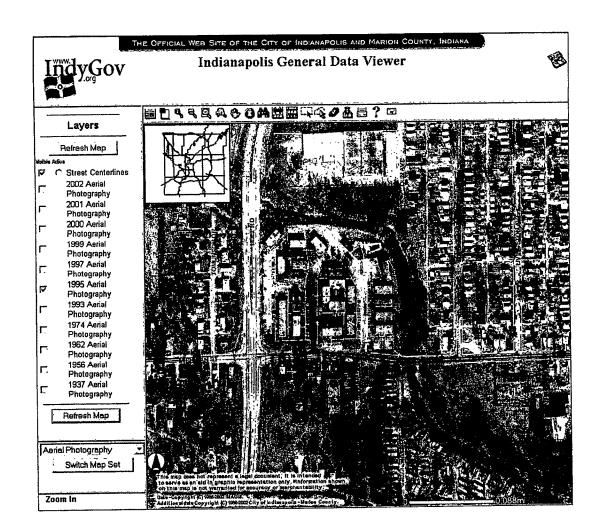


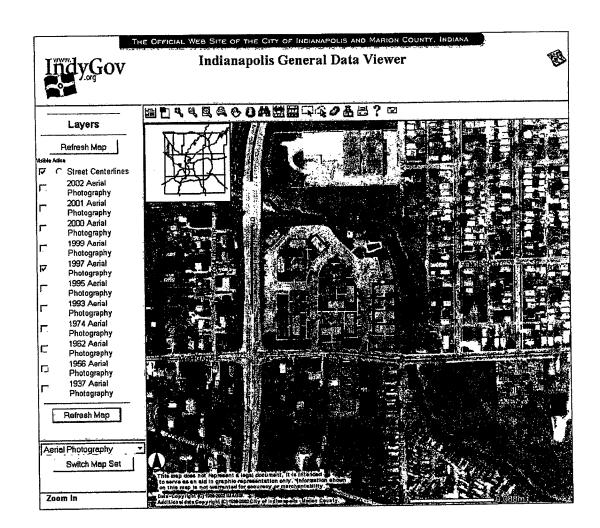


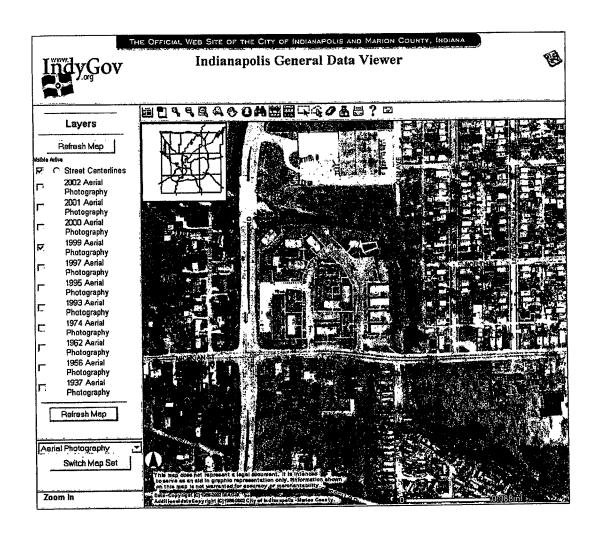




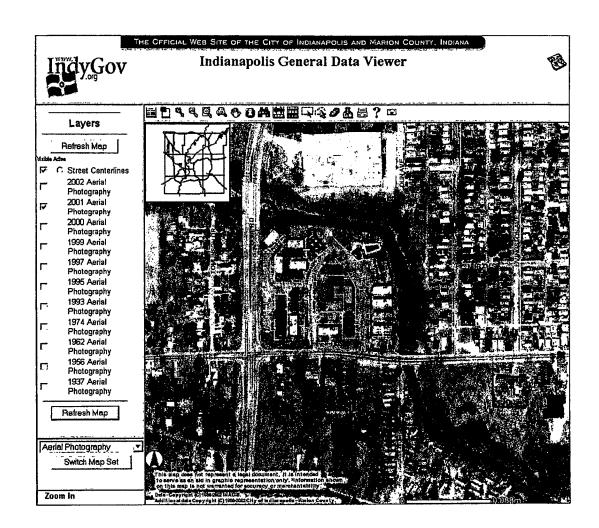


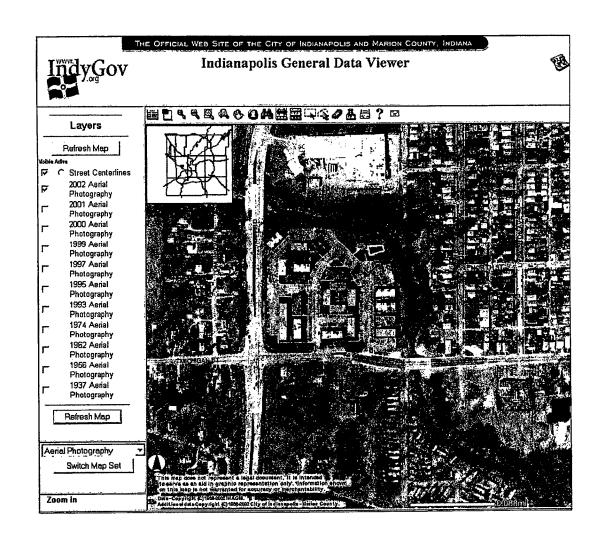












APPENDIX C

EDR Radius Map and Report

APPENDIX C

EDR Radius Map and Report

O:\M01046 Michigan Meadows Apts\Phase I Investigations\Phase I_Apts.doc



The EDR Radius Map with GeoCheck®

Michigan Plaza Shopping Center 3800/3801-3823 W Michigan St Indianapolis, IN 46222

Inquiry Number: 01073238.4r

October 29, 2003

The Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802 Internet: www.edmet.com

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Government Records Searched/Data Currency Tracking	GR-1
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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TC01073238.4r Page 1

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

3800/3801-3823 W MICHIGAN ST INDIANAPOLIS, IN 46222

COORDINATES

Latitude (North):

39.773580 - 39* 46' 24.9"

Longitude (West):

86.226390 - 86* 13' 35.0"

Universal Tranverse Mercator: Zone 16 UTM X (Meters):

566254.8

UTM Y (Meters):

4402704.0

Elevation:

715 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:

2439086-G2 INDIANAPOLIS WEST, IN

Source:

USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
COCA COLA BOTTLING 3800 W MICHIGAN INDIANAPOLIS, IN 0	LUST UST	N/A
3800 WEST MICHIGAN STREET 3800 WEST MICHIGAN STREET INDIANAPOLIS, IN 0	IN Spills ·	N/A
ACCENT CLEANERS 3819 W MICHIGAN ST INDIANAPOLIS, IN 46222	RCRIS-SQG FINDS	IND133360693
MICHIGAN APARTMENTS 3800 W MICHIGAN ST INDIANAPOLIS, IN 46222	FINDS _.	110012129678

TC01073238.4r EXECUTIVE SUMMARY 1

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL...... National Priority List

Proposed NPL Proposed National Priority List Sites

System

CERC-NFRAP...... CERCLIS No Further Remedial Action Planned

ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

SWF/LF...... Permitted Solid Waste Facilities

FEDERAL ASTM SUPPLEMENTAL

CONSENT...... Superfund (CERCLA) Consent Decrees

ROD Records Of Decision

HMIRS...... Hazardous Materials Information Reporting System

MLTS..... Material Licensing Tracking System

RAATS......RCRA Administrative Action Tracking System

TSCA...... Toxic Substances Control Act

SSTS...... Section 7 Tracking Systems

Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

BULK Registered Bulk Fertilizer and Pesticide Storage Facilities

BROWNFIELDS DATABASES

US BROWNFIELDS..... A Listing of Brownfields Sites

Brownfields Site List INST CONTROL....... Sites with Restrictions

EDR PROPRIETARY HISTORICAL DATABASES

See the EDR Proprietary Historical Database Section for details

TC01073238.4r EXECUTIVE SUMMARY 2

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 08/13/2003 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir Map ID	Page
GMC ALLISON TRANSMISSION PLANT	4700 WEST 10TH STREET P	1/2 - 1 WNW 10	10

RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-SQG list, as provided by EDR, and dated 09/10/2003 has revealed that there are 2 RCRIS-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GENERAL MOTORS PLT 10 FORMER ALLISON PLT 10	700 N OLIN AVE 700 N OLIN AVE	1/8 - 1/4 NNE 1/8 - 1/4 NNE		7 7

STATE ASTM STANDARD

TC01073238.4r EXECUTIVE SUMMARY 3

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Management's List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model.

A review of the SHWS list, as provided by EDR, has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MARATHON ASHLAND PETROLEUM SPE	1304 OLIN AVENUE	1/2 - 1 N	11	17

LUST: Lust List.

A review of the LUST list, as provided by EDR, and dated 09/24/2003 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir Map	ID Page
SPEEDWAY/SM #6122	4155 W 10TH ST	1/4 - 1/2NNW 9	9
Lower Elevation	Address	Dist / Dir Map	ID Page
FLORAL PARK CEMETERY	3659 COSSEL RD	1/4 - 1/2SE 8	8

VCP:Department of Environmental Management's current list of Voluntary Remediation Program sites that are no longer confidential.

A review of the VCP list, as provided by EDR, and dated 06/01/2003 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
ALLISON ENGINE CO. (FORMER)	700 N. OLIN AVE.	1/8 - 1/4NNE	7	8

BROWNFIELDS DATABASES

VCP:Department of Environmental Management's current list of Voluntary Remediation Program sites that are no longer confidential.

A review of the VCP list, as provided by EDR, and dated 06/01/2003 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	-	Dist / Dir	Map ID	Page
ALLISON ENGINE CO. (FORMER)	700 N. OLIN AVE.		1/8 - 1/4NNE	7	8

EDR PROPRIETARY HISTORICAL DATABASES

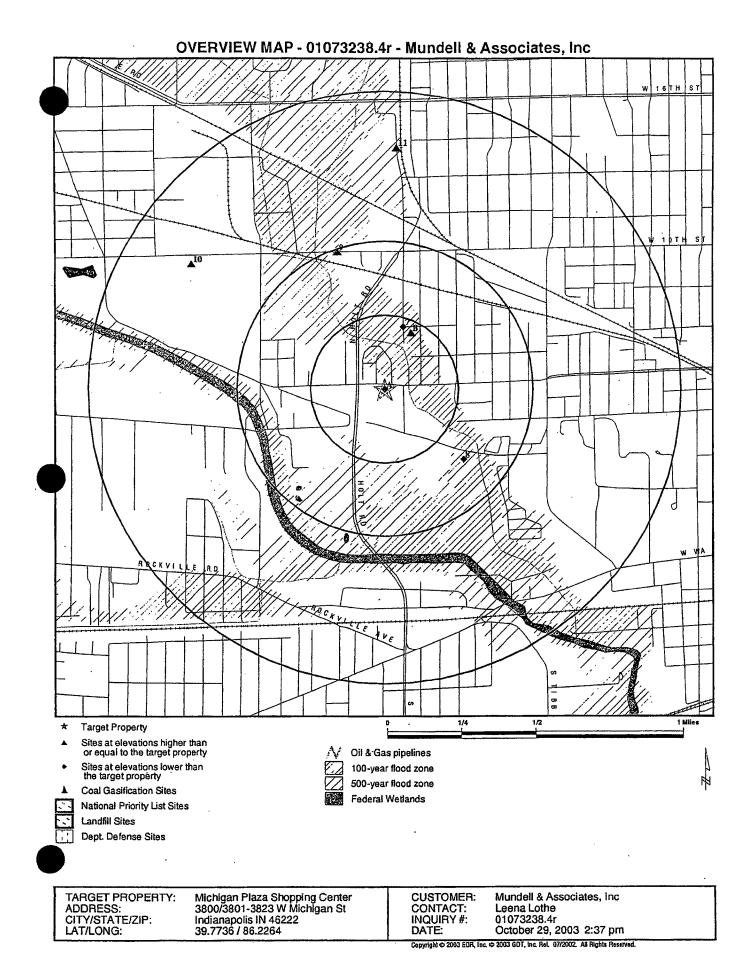
See the EDR Proprietary Historical Database Section for details

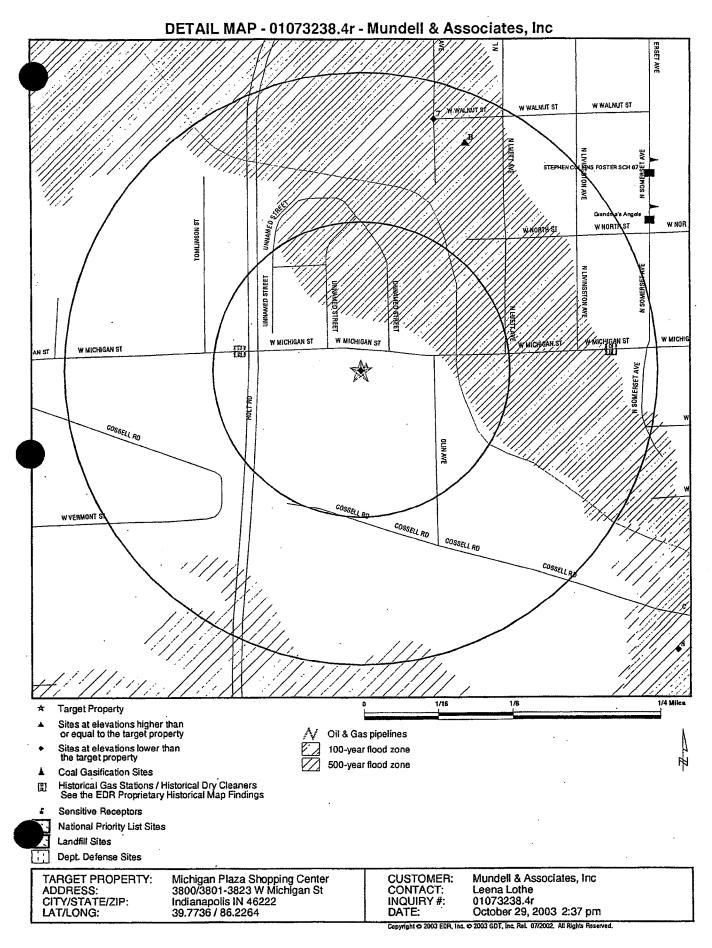
TC01073238.4r EXECUTIVE SUMMARY 4

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
MARATHON/ROCK ISLAND REFINERY AND TERMIN	SHWS
AVANTI	SHWS
TENTH & LYNHURST DUMP	CERC-NFRAP
INDIANA NATIONAL GUARD	UST
DEERING CLEANERS	VCP
SHELL BULK TERMINAL/DREW PROPERTY	VCP
BETWEEN 10TH AND MICHIGAN AT TIBBS	ERNS
EVANS DIVISON OF IL CEREAL MILLS 1750 WEST MICHIGAN	ERNS
GEORGTOWN SQUARE CENTER 4711 W. 30TH	ERNS
LILLY CORPORATE CENTER BLDG 25/46	ERNS
LILLY CORPORATE CENTER	ERNS
LILLY CORPERATE CENTER .	ERNS
GM METAL FABRICATING DIV. INDIANAPOLIS METAL CENTER	TRIS

TC01073238.4r EXECUTIVE SUMMARY 5





MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARI	2							
NPL Proposed NPL CERCLIS CERC-NFRAP CORRACTS RCRIS-TSD RCRIS-Lg. Quan. Gen. RCRIS Sm. Quan. Gen. ERNS	X*	1.000 1.000 0.500 0.250 1.000 0.500 0.250 0.250 TP	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 2 NR	0 0 0 NR 0 0 NR NR NR	0 0 NR NR 1 NR NR NR NR	NR NR NR NR NR NR NR NR NR NR NR	0· 0 0 0 1 0 0 2
STATE ASTM STANDARD								•
State Haz. Waste State Landfill LUST UST VCP	X X	1.000 0.500 0.500 0.250 0.500	0 0 0 0	0 0 0 0 1	0 0 2 NR 0	1 NR NR NR NR	NR NR NR NR NR	1 0 2 0 1
FEDERAL ASTM SUPPLEME	ENTAL			•				•
CONSENT ROD Delisted NPL FINDS HMIRS MLTS MINES NPL Liens PADS DOD US BROWNFIELDS RAATS TRIS TSCA SSTS FTTS	×	1.000 1.000 1.000 TP TP TP 0.250 TP 1.000 0.500 TP TP TP	0 0 0 R R R O R R R R R R R R R R R R R	0 0 0 R R R 0 R R C 0 0 R R R R R R R R	000 R NR NR N	0 0 0 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	X X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
STATE OR LOCAL ASTM SUPPLEMENTAL								
IN Spills BULK	X ,	TP TP	NR NR	NR NR	NR NR	NR NR	NR NR	0 0
EDR PROPRIETARY HISTOI	RICAL DATAB	ASES					•	•
Gas Stations/Dry Cleaners Coal Gas		0.250 1.000	7 0	4 0	NR 0	NR 0	NR NR	11 0

TC01073238.4r Page 4

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
BROWNFIELDS DATABAS	ES							
US BROWNFIELDS Brownfields INST CONTROL VCP		0.500 0.500 0.250 0.500	0 0 0 0	0 0 0 1	0 0 NR 0	NR NR NR NR	NR NR NR NR	0 0 0 1

NOTES:

See the EDR Proprietary Historical Database Section for details

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

TC01073238.4r Page 5

Map ID Direction Distance Distance (ft.)

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

A1 Target Property

Elevation

COCA COLA BOTTLING 3800 W MICHIGAN INDIANAPOLIS, IN 0

1000762719 UST N/A

Site 1 of 4 in cluster A

Actual: 714 ft.

LUST:

Site

Facility ID:

20068

Coca Cola Bottling Owner Name:

Incident Number: 198802048

Priority:

Affected Area: Active

Description:

Low Soil

UST:

Facility ID: 20068

Tank Number: 0 -Tank Status:

Not reported

Install Date:

Closure Date: Owner id:

Not reported 12000

Company Name: Unknown

Mailing Address: Not reported

IN 0

A2

Target **Property**

3800 WEST MICHIGAN STREET

INDIANAPOLIS, IN 0

IN Spills S105274365

N/A

Site 2 of 4 in cluster A

Actual: 714 ft.

SPILL:

Facility ID:

200201143

1/22/2002 14:00:00

Spill

Other

Spill Source:

Contained: Not reported

Water Affected:

Incident Date:

Spill Type:

Little Eagle Creek

Fish Killed: Enforcement: Not reported

Spilled Amount: 3,00

PENDING ADDITIONAL REPORT

Recovered Amnt: Not reported Material: Domestic sewage

Cleanup Duration:

Public Intake:

Not reported Not reported

Units: Units:

Report Date:

Area Affected:

Gallons

Wtr Supply Affetd: No

Not reported

undetermined

1/22/2002 16:30:09

A3

Target Property **ACCENT CLEANERS**

3819 W MICHIGAN ST

INDIANAPOLIS, IN 46222

Site 3 of 4 in cluster A

Actual: 714 ft.

RCRIS-SQG 1004699100 FINDS IND133360693

TC01073238.4r Page 6

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

ACCENT CLEANERS (Continued)

1004699100

RCRIS:

Owner:

CLEVERLY ROBERT

(312) 555-1212

EPA ID:

IND133360693

Contact:

Not reported

Classification:

Conditionally Exempt Small Quantity Generator

TSDF Activities: Not reported

Violation Status: No violations found

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

A4 Target

Property

MICHIGAN APARTMENTS 3800 W MICHIGAN ST

INDIANAPOLIS, IN 46222

FINDS 1004499836

RCRIS-SQG

110012129678

1001196141 INR000010926

Actual:

Site 4 of 4 in cluster A

714 ft.

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS) State Systems (STATE)

В5 NNE

1/8-1/4 1096 ft. **GENERAL MOTORS PLT 10**

700 N OLIN AVE

INDIANAPOLIS, IN 46221

Site 1 of 2 in cluster B

Relative: Equal

RCRIS: Owner:

ALLISON ENGINE CO

Actual: 715 ft.

EPA ID:

(317) 230-6095 INR000010926

Contact:

Not reported

Classification:

Small Quantity Generator

TSDF Activities: Not reported

Violation Status: No violations found

B6 NNE 1/8-1/4

1112 ft.

700 N OLIN AVE

INDIANAPOLIS, IN 46206

Site 2 of 2 in cluster B

Relative: Equal

Actual: 715 ft.

FORMER ALLISON PLT 10

RCRIS-SQG 1000110525 IND000806810 FINDS

TC01073238.4r Page 7

Map ID Direction Distance Distance (ft.) Elevation

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

1000110525

FORMER ALLISON PLT 10 (Continued)-

RCRIS:

GENUINE PARTS CO

(770) 858-2564

EPA ID:

Owner:

IND000806810

Contact:

Not reported

Classification:

Small Quantity Generator

TSDF Activities: Not reported

BIENNIAL REPORTS:

Last Biennial Reporting Year: 2001

Waste D007

Quantity (Lbs) 9963000.00 Waste D008

Quantity (Lbs) 9963000.00

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Biennial Reporting System (BRS)

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

ALLISON ENGINE CO. (FORMER)

NNE

700 N. OLIN AVE. INDIANAPOLIS, IN

1/8-1/4 1160 ft.

Relative: Lower .

Actual:

714 ft.

IN VCP:

VRP Id Number:

Applicant Name:

6991004 Genuine Parts Company

Project Manager:

Wieringa Not reported

Cert of Completion Issued:

Convenant Not To Sue Issued:

Not reported Active

Status:

LUST

1000514185 N/A UST

S105202299

\$E

FLORAL PARK CEMETERY 3659 COSSEL RD

INDIANAPOLIS, IN 46222 1/4-1/2

1884 ft. Relative:

LUST:

14038

Facility ID: Owner Name:

Floral Park Cemetery

Lower Actual: 702 ft.

199902503 Incident Number: Low . Priority:

Affected Area:

Soil

Description:

Active

UST:

Facility ID:

14038

Tank Number: Tank Status:

PERMANENTLY OUT OF SERVICE

Install Date:

Closure Date:

1/25/99 0:00 5620

Owner Id:

Company Name: Floral Park Cemetery Association

Mailing Address: 2702 Kessler Blvd W Dr

TC01073238.4r Page 8

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number **EPA ID Number**

1000514185

FLORAL PARK CEMETERY (Continued)

Indianapolis, IN 46208

NNW

SPEEDWAY/SM #6122 4155 W 10TH ST

U001079367 UST LUST N/A

1/4-1/2 2589 ft. INDIANAPOLIS, IN 46222

Relative:

Higher Actual:

720 ft.

LUST:

Facility ID: 6663 Owner Name: United Incident Number: 198912509 Priority: Low

Affected Area:

Soil Description: Discontinued

UST:

Facility ID: Tank 'Number:

6663 6

Tank Status:

CURRENTLY IN USE 08/01/90

Install Date: Closure Date:

Not reported 107

Owner Id:

Company Name: Speedway SuperAmerica LLC

Pa Box-1500 Mailing Address:

Springfield, OH 45501

Facility ID: Tank Number: 6663

6663

Tank Status:

CURRENTLY IN USE 08/01/90

Install Date: Closure Date: Not reported

107 Owner Id:

Company Name: Speedway SuperAmerica LLC

Mailing Address: Po Box 1500

Springfield, OH 45501

Facility ID: Tank Number:

CURRENTLY IN USE Tank Status: 08/01/90 Install Date:

Closure Date: Not reported

107 Owner Id:

Company Name: Speedway SuperAmerica LLC

Mailing Address: Po Box 1500

Springfield, OH 45501

Facility ID:

6663

Tank Number:

CURRENTLY IN USE Tank Status:

Install Date: 08/01/90 Not reported Closure Date:

Owner Id:

Company Name: Speedway SuperAmerica LLC

Po Box 1500 Mailing Address:

107

Springfield, OH 45501

Facility ID: 6663 Tank Number:

TC01073238.4r Page 9

Map ID Direction Distance Distance (ft.) Site Elevation

MAP FINDINGS.

Database(s)

EDR ID Number **EPA ID Number**

U001079367

SPEEDWAY/SM #6122 (Continued)

PERMANENTLY OUT OF SERVICE Tank Status:

Install Date: Closure Date: 11 8/1/90 0:00

Owner Id:

107

6663

Company Name: Speedway SuperAmerica LLC

Mailing Address: Po Box 1500

Springfield, OH 45501

Facility ID:

Tank Number:

Tank Status:

PERMANENTLY OUT OF SERVICE Install Date:

8/1/90 0:00 Closure Date:

Owner Id: 107

Company Name: Speedway SuperAmerica LLC

Mailing Address: Po Box 1500

Springfield, OH 45501

Facility ID:

Tank Number:

Tank Status:

PERMANENTLY OUT OF SERVICE

Install Date: Closure Date:

8/1/90 0:00

Owner Id: 107

Company Name: Speedway SuperAmerica LLC

Mailing Address: Po Box 1500

Springfield, OH 45501

6663 Facility ID: Tank Number:

Tank Status:

PERMANENTLY OUT OF SERVICE

Install Date:

8/1/90 0:00 Closure Date:

107 Owner Id:

Company Name: Speedway SuperAmerica LLC

Mailing Address: Po Box 1500

Springfield, OH 45501

Facility ID:

Tank Number: 5

PERMANENTLY OUT OF SERVICE Tank Status: 11

6663

Install Date:

8/1/90 0:00 Closure Date:

Owner ld:

107 Company Name: Speedway SuperAmerica LLC

Mailing Address: Po Box 1500

Springfield, OH 45501

10 WNW 1/2-1 4115 ft. **GMC ALLISON TRANSMISSION PLANTS 3 & 12/1**

4700 WEST 10TH STREET PO BOX 894

INDIANAPOLIS, IN 46206

Relative: Higher.

Actual: 724 ft.

PADS RCRIS-LQG

FINDS CORRACTS CERC-NFRAP

TC01073238.4r Page 10

1000993997

IND006413348

Map ID Direction Distance Distance (ft.) Elevation Site

MAP FINDINGS

Database(s)

Federal Facility: Not a Federal Facility

NPL Status:

Completed:

Completed:

Completed:

Completed:

Not on the NPL

08/22/1985

10/10/1986

09/30/1993

12/12/1995

EDR ID Number **EPA ID Number**

GMC ALLISON TRANSMISSION PLANTS 3 & 12/1 (Continued)

1000993997

CERCLIS-NFRAP Classification Data:

Site Incident Categor/Not reported

Non NPL Code: DR Ownership Status: Other

CERCLIS-NFRAP Assessment History: DISCOVERY

Assessment: Assessment:

PRELIMINARY ASSESSMENT PRELIMINARY ASSESSMENT Assessment: ARCHIVE SITE Assessment:

CERCLIS-NFRAP Alias Name(s):

DETROIT DIESEL ALLISON DIV GM CORP

DETROIT DIESEL (SIA) ALLISON TRANSMISSION-GM

CORRACTS Data:

IND006413348 EPA Id:

Region:

ENTIRE FACILITY Area Name: Not reported Original Scheduled Date: 09/30/1993 Actual Date:

Corrective Action:

CA075ME - CA Prioritization, Facility or area was assigned a medium corrective

action priority

Railroad Rolling Stock Manufacturing 2002 NAICS Title:

Mechanical Power Transmission Equipment Manufacturing

All Other Motor Vehicle Parts Manufacturing Aircraft Engine and Engine Parts Manufacturing

EPA Id:

IND006413348

Region: **ENTIRE FACILITY** Area Name: Original Scheduled Date: Not reported 03/31/1994

Actual Date: Corrective Action:

CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the

facility, technical factors, the degree of risk, timing considerations and

administrative considerations

Railroad Rolling Stock Manufacturing 2002 NAICS Title:

Mechanical Power Transmission Equipment Manufacturing

All Other Motor Vehicle Parts Manufacturing Aircraft Engine and Engine Parts Manufacturing

RCRIS Corrective Action Summary:

Stabilization Measures Evaluation, This facility is amenable to stabilization Event:

activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and

administrative considerations.

Event Date:

Event:

03/31/1994

CA Prioritization, Facility or area was assigned a medium corrective action

priority.

09/30/1993 **Event Date:**

TC01073238.4r Page 11

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s)

EDR ID Number EPA ID Number

GMC ALLISON TRANSMISSION PLANTS 3 & 12/1 (Continued)

1000993997

RCRIS:

Owner:

GMC DETROIT DIESEL ALLISON DIV PLT 3

(317) 242-4467

EPA ID:

IND006413348

Contact:

R SEWALL (317) 242-2366

..

Classification: Large Quantity Generator .

TSDF Activities: Not reported

BIENNIAL REPORTS:

Last Biennial Reporting Year: 2001

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	6506.00	D002	25335.00
D005	582.00	D007	43688.00
D008	13383.00	D009	76.00
D025	68.00	F001	37664.00
F006	27980.00	F007	18520.00
F008	807.00	F009	18520.00
U002	293.00	U007	215.00
U044	293.00	U226	582.00
11000	202.00		•

Violation Status: Violations exist

Regulation Violated:

Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action:

Enforcement Action Date: Penalty Type:

Regulation Violated: Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action: Enforcement Action Date:

Penalty Type:

Regulation Violated: Area of Violation:

Date Violation Determined:

Actual Date Achieved Compliance:

Enforcement Action: Enforcement Action Date:

Penalty Type: Regulation Violated:

Area of Violation:
Date Violation Determined:
Actual Date Achieved Compliance:

Enforcement Action: Enforcement Action Date:

Penalty Type:

Enforcement Action:

262.34a2

GENERATOR-PRE-TRANSPORT REQUIREMENTS

07/25/2002 02/28/2003

WRITTEN INFORMAL 10/03/2002

Not reported 265.193

TSD-TANKS REQUIREMENTS

07/25/2002 02/28/2003

WRITTEN INFORMAL

10/03/2002 Not reported

262.34a3 GENERATOR-PRE-TRANSPORT REQUIREMENTS

07/25/2002 02/28/2003

WRITTEN INFORMAL

10/03/2002 Not reported 268.7

TSD-LAND BAN REQUIREMENTS

12/04/2000 07/17/2002

WRITTEN INFORMAL . 11/29/2001

Final Monetary Penalty

FINAL 3008(A) COMPLIANCE ORDER

TC01073238.4r Page 12

Direction Distance

Map ID

Distance (ft.)

Site

Elevation

Database(s)

EDR ID Number EPA ID Number

1000993997

GMC ALLISON TRANSMISSION PLANTS 3 & 12/1 (Continued)

Enforcement Action Date:

05/16/2002 Final Monetary Penalty

MAP FINDINGS

Penalty Type: Regulation Violated:

Area of Violation:

GENERATOR-GENERAL REQUIREMENTS

Date Violation Determined: Actual Date Achieved Compliance:

12/04/2000 07/17/2002

Enforcement Action:

WRITTEN INFORMAL

Enforcement Action Date:

11/29/2001

Penalty Type:

Final Monetary Penalty

Enforcement Action:

Enforcement Action Date:

FINAL 3008(A) COMPLIANCE ORDER 05/16/2002

Penalty Type:

Final Monetary Penalty

Regulation Violated:

Area of Violation:

GENERATOR-MANIFEST REQUIREMENTS

Date Violation Determined: Actual Date Achieved Compliance: 07/17/2002

12/04/2000

Enforcement Action:

WRITTEN INFORMAL

Enforcement Action Date:

11/29/2001

Penalty Type:

Final Monetary Penalty

Enforcement Action:

Enforcement Action Date:

FINAL 3008(A) COMPLIANCE ORDER 05/16/2002

Penalty Type:

Final Monetary Penalty

Regulation Violated:

262.11

Area of Violation:

GENERATOR-GENERAL REQUIREMENTS

Date Violation Determined: Actual Date Achieved Compliance: 05/20/1999 02/03/2000

Enforcement Action:

WRITTEN INFORMAL

Enforcement Action Date:

06/09/1999

Penalty Type:

Not reported

Enforcement Action:

WRITTEN INFORMAL

Enforcement Action Date:

09/13/1999 Not reported

Penalty Type:

Regulation Violated:

262.34a3

Area of Violation:

Date Violation Determined:

GENERATOR-PRE-TRANSPORT REQUIREMENTS

Actual Date Achieved Compliance:

05/20/1999 02/03/2000

Enforcement Action:

WRITTEN INFORMAL

Enforcement Action Date:

06/09/1999

Penalty Type:

Not reported

WRITTEN INFORMAL

Enforcement Action:

09/13/1999

Enforcement Action Date: Penalty Type:

Not reported

Regulation Violated:

279.22c

INUOA 05/20/1999

Area of Violation: **Date Violation Determined:**

02/03/2000

Actual Date Achieved Compliance:

WRITTEN INFORMAL

Enforcement Action: **Enforcement Action Date:**

Enforcement Action:

06/09/1999 Not reported

Penalty Type:

WRITTEN INFORMAL

TC01073238.4r Page 13

Map ID Direction Distance Distance (ft.) Elevation Site MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

1000993997

GMC ALLISON TRANSMISSION PLANTS 3 & 12/1 (Continued)

Enforcement Action Date:

Penalty Type:

Regulation Violated: Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action: **Enforcement Action Date:**

Penalty Type:

Enforcement Action:

Enforcement Action Date:

Penalty Type:

Regulation Violated: Area of Violation:

Date Violation Determined:

Actual Date Achieved Compliance:

Enforcement Action:

Enforcement Action Date: Penalty Type:

Enforcement Action:

Enforcement Action Date: Penalty Type:

Regulation Violated:

Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action: **Enforcement Action Date:**

Penalty Type:

Enforcement Action: **Enforcement Action Date:**

Penalty Type:

Regulation Violated: Area of Violation:

Date Violation Determined:

Actual Date Achieved Compliance:

Enforcement Action:

Enforcement Action Date:

Penalty Type:

Enforcement Action:

Enforcement Action Date:

Penalty Type:

Regulation Violated:

Area of Violation:

Date Violation Determined:

Actual Date Achieved Compliance:

Regulation Violated:

Area of Violation:

Date Violation Determined:

Actual Date Achieved Compliance:

09/13/1999

Not reported 273.14

INUWR 05/20/1999 02/03/2000

WRITTEN INFORMAL

06/09/1999

Not reported

WRITTEN INFORMAL

09/13/1999 Not reported

262.34/265.16

GENERATOR-PRE-TRANSPORT REQUIREMENTS

05/20/1999 02/03/2000

WRITTEN INFORMAL

06/09/1999

Not reported

WRITTEN INFORMAL

09/13/1999 Not reported

262.34b

GENERATOR-PRE-TRANSPORT REQUIREMENTS

05/20/1999 02/03/2000

WRITTEN INFORMAL

06/09/1999 Not reported

WRITTEN INFORMAL

09/13/1999 Not reported

262.34/265.174

GENERATOR-PRE-TRANSPORT REQUIREMENTS

05/20/1999 02/03/2000

WRITTEN INFORMAL

06/09/1999 Not reported

WRITTEN INFORMAL

09/13/1999 Not reported

Not reported

GENERATOR-GENERAL REQUIREMENTS

12/18/1996 05/16/1997

Not reported

GENERATOR-PRE-TRANSPORT REQUIREMENTS

12/18/1996 05/16/1997

TC01073238.4r Page 14

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation

Database(s)

EDR ID Number **EPA ID Number**

1000993997

GMC ALLISON TRANSMISSION PLANTS 3 & 12/1 (Continued)

Regulation Violated:

Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Regulation Violated: Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Regulation Violated: Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action:

Enforcement Action Date: Penalty Type:

Regulation Violated:

Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action: Enforcement Action Date: Penalty Type:

Regulation Violated: Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action: Enforcement Action Date: Penalty Type:

Regulation Violated:

Area of Violation: Date Violation Determined:

Actual Date Achieved Compliance:

Enforcement Action: **Enforcement Action Date:** Penalty Type:

Regulation Violated: Area of Violation:

Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action: Enforcement Action Date:

Penalty Type: Regulation Violated:

Area of Violation: Date Violation Determined: Actual Date Achieved Compliance:

Enforcement Action:

Enforcement Action Date: Penalty Type:

Not reported

GENERATOR-PRE-TRANSPORT REQUIREMENTS

12/18/1996 05/16/1997

Not reported

GENERATOR-PRE-TRANSPORT REQUIREMENTS

12/18/1996 05/16/1997

Not reported

GENERATOR-PRE-TRANSPORT REQUIREMENTS

02/28/1992 04/30/1993

WRITTEN INFORMAL

09/16/1992 Not reported

Not reported

GENERATOR-PRE-TRANSPORT REQUIREMENTS

02/28/1992 04/30/1993

WRITTEN INFORMAL

09/16/1992 Not reported

Not reported GENERATOR-PRE-TRANSPORT REQUIREMENTS

02/28/1992 04/30/1993

WRITTEN INFORMAL 09/16/1992

Not reported

Not reported TSD-LAND BAN REQUIREMENTS

02/28/1992 04/30/1993

WRITTEN INFORMAL

09/16/1992 Not reported

Not reported GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

09/11/1985 10/10/1986

WRITTEN INFORMAL 11/25/1985

Not reported Not reported

GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

09/11/1985 10/10/1986

WRITTEN INFORMAL

11/25/1985 Not reported

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Map ID Direction Distance Distance (ft.) Site Elevation

Database(s)

EDR ID Number EPA ID Number

GMC ALLISON TRANSMISSION PLANTS 3 & 12/1 (Continued)

1000993997

Evaluation	Area of Violation	Compliance
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20030228
Somphanoc Evaluation map server	TSD-TANKS REQUIREMENTS	20030228
•	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20030228
Compliance Schedule Evaluation	TSD-LAND BAN REQUIREMENTS	20020717
iomphanoe concedio Evaluation.	GENERATOR-GENERAL REQUIREMENTS	20020717
	GENERATOR-MANIFEST REQUIREMENTS	20020717
Other Evaluation	TSD-LAND BAN REQUIREMENTS	20020717
· ·	GENERATOR-GENERAL REQUIREMENTS	20020717
	GENERATOR-MANIFEST REQUIREMENTS	20020717
Compliance Schedule Evaluation	GENERATOR-GENERAL REQUIREMENTS	20000203
Minphance Canadale Evaluation	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000203
	INUWR	20000203
	INUOA	20000203
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000203
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000203
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000203
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	20000203
Omphance Evaluation inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000203
	INUWR	20000203
	INUOA	20000203
•	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000203
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000203
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000203
Compliance Schedule Evaluation	GENERATOR-GENERAL REQUIREMENTS	19970516
Sompliance Concusto Evaluation	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970516
•	GENERATOR-PRE-TRANSPORT-REQUIREMENTS	19970516
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970516
Compliance Schedule Evaluation	GENERATOR-GENERAL REQUIREMENTS	. 19970516
Compliance Concedio Everconor.	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970516
~	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970516
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970516
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19970516
Compliance Evaluation inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970516
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970516
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970516
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19930430
Compliance Evaluation in appearant	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19930430
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19930430
	TSD-LAND BAN REQUIREMENTS	19930430
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19861010
Combigue Example mobilities	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19861010

NY MANIFEST

Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AIRS Facility System (AIRS/AFS)

Biennial Reporting System (BRS)

Facility Registry System (FRS)

ICIS

NEI

National Compliance Database (NCDB)

National Emissions Trends (NET)

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

RCRIS-SQG

FINDS

-SHWS

EDR ID Number EPA ID Number

1000993993

IND005417126

GMC ALLISON TRANSMISSION PLANTS 3 & 12/1 (Continued)

1000993997

Resource Conservation and Recovery Act Information system (RCRAINFO) State Systems (STATE)

Toxic Chemical Release Inventory System (TRIS)

11 North 1/2-1

MARATHON ASHLAND PETROLEUM SPEEDWAY 1304 OLIN AVENUE

INDIANAPOLIS, IN 46222

4300 ft. Relative:

RCRIS:

Owner:

NAME NOT REPORTED

(312) 555-1212 IND005417126

Actual: 730 ft.

Higher

EPA ID: Contact:

PETER A REYNOLDS JR

(419) 421-2336

Classification: Small Quantity Generator

TSDF Activities: Not reported

BIENNIAL REPORTS:

Last Biennial Reporting Year: 2001

Quantity (Lbs) Waste 4340.00 D001

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AIRS Facility System (AIRS/AFS) Facility Registry System (FRS)

Permit Compliance System (PCS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

State Systems (STATE)

Toxic Chemical Release Inventory System (TRIS)

SHWS:

Facility Id:

0000101 21.04

Score:

April 1992 Contaminant TypePetroleum and Volatile Organic Compounds (VOCs)

Media Affected:

Soil and groundwater

Last Date: Facility Status: May 2002

STATUS: The Speedway terminal site is a petroleum bulk storage and pipelineterminal operated by Marathon Ashland Petroleum. During an onsite soil and groundwaterinvestigation, petroleum free product was found to be impacting the groundwater. Multiple subsurface investigations were conducted to determine the extent of free productas well as adsorbed and dissolved phase organic compounds. The contaminants of concern were determined to be migrating offsite, and multiple recovery wells were placedto treat the groundwater and collect free product. A soil vapor extraction system is beingused to remove volatile organic compounds from the soil and groundwater. Significantreductions in free product thickness are currently being found. The soil vapor extractionsystem has adequately treated the volatile organic compounds to below cleanup goals. Thesite currently remains in the operation and maintenance stage. Investigations are ongoingto determine locations of source areas and mitigate these sources. The IDEM isnegotiating additional investigation needs with

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MAP:FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s)

EDR ID Number EPA ID Number

MARATHON ASHLAND PETROLEUM SPEEDWAY (Continued)

1000993993

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	MAP FINDINGS -	- EDR PROPRIETARY HISTORICAL L	IL DATABASES					
YFAR	YEAR NAME	ADDRESS	сіту	ST DIR.	- 1	DIST. ELEV.	LEV.	ТҮРЕ
1973 1991 1986 1986 1978 1973 1990 1980	ACCENT CLEANERS ACCENT DRY CLEANING ACCENT DRY CLEANING ACCENT DRY CLEANING ACCENT DRY CLEANING MICHIGAN PLAZA COIN LINDRY MICHIGAN ST AUTO HAUS INCORPORATED AUTOHAUS CARL MERKLE INC	3819 W MICHIGAN ST 3819 W MICHIGAN ST 3819 W MICHIGAN ST 3823 W MICHIGAN ST 3823 W MICHIGAN ST 3823 W MICHIGAN ST 3663 W MICHIGAN ST	INDIANAPOLIS	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	West < The West < West < The Wes	1/8 H 1/8 H	Higher Higher Higher Higher Higher Higher Higher Higher Higher	CLEANERS AND DYERS Cleaners CLEANERS AND DYERS Laundries-Self Serve LAUNDRIES-SELF SERVE LAUNDRIES-SELF SERVE Automobile Repairing Automobile Repairing Automobile Repairing Automobile Repairing

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

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-Q	
~	
-	

į	9	Cita Namo	Site Address	Zip	Database(s)	- 1
City	מ אמי	Old Tallion		66687	48333 CEBC.NEBAD	
INDIANAPOLIS	1003870950	TENTH & LYNHURST DUMP	10TH ST AT LYNHURS! SI	4022	VCP	
INDIANAPOLIS	\$105202373	DEERING CLEANERS	2121 / 2101 W. MICHIGAN ST.		VCP	
INDIANAPOLIS	S105202549	SHELL BULK TERMINALUKEW TRUTENT	BATH AND GEORGETOWN ROAD		SHWS	
INDIANAPOLIS	œ	MARATHON/ROCK ISLAND REFINENT AND LENGTH	BETWEEN 10TH AND MICHIGAN AT TIBBS		ERNS	
INDIANAPOLIS	99607866	BETWEEN 101H AND MICHIGAN AT 11556	EVANS DIVISON OF IL CEREAL MILLS 1750		ERNS	
INDIANAPOLIS	94363834	EVANS DIVISON OF IL CEREAL MILLS 1730 WEST	WEST MICHIGAN			
		MICHIGAN	GEORGIOWN SOUARE CENTER 4711 W. 30Th		ERNS	•
INDIANAPOLIS	93338675	GEORGTOWN SQUARE CENTER 4711 W. 3010	SOUTH HADDIN AVEN IF		SHWS	
INDIANAPOLIS .	S104825607	AVANTI			UST	
INDIANAPOLIS	U000195108	U000195108 INDIANA NATIONAL GUARD	HOLLING		ERNS	
INDIANAPOLIS	96476064	LILLY CORPORATE CENTER BLUG 25/40	LILY CORPORATE CENTER		ERNS	
INDIANAPOLIS	91239690	LILLY CORPORATE CENTER	LILL COMPERATE CENTER		ERNS	
INDIANAPOLIS	91204178	LILLY CORPERATE CENTER GM METAL FABRICATING DIV. INDIANAPOLIS	340 WHITE RIVER PKY.	46222	TRIS	
INDIANAPOLIS				•		

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS. BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D005	BARIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D025	P-CRESOL
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F006	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
F007	SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS
F008	PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
F009	SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
U002	ACETONE (I)

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EPA Wäste Codes Addendum

Code	Description
U002	2-PROPANONE (I)
U007	ACRYLAMIDE
U007	2-PROPENAMIDE
U044	CHLOROFORM
U044	METHANE, TRICHLORO-
U226	ETHANE, 1,1,1-TRICHLORO-
U226	METHYL CHLOROFORM
U239	BENZENE, DIMETHYL- (I,T)
U239	XYLENE (I)

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To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/22/03 Date Made Active at EDR: 08/26/03

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/04/03

Elapsed ASTM days: 22

Date of Last EDR Contact: 08/04/03

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA Telephone: N/A

> Date of Government Version: 06/10/03 Date Made Active at EDR: 08/26/03

> Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/04/03

Elapsed ASTM days: 22

Date of Last EDR Contact: 08/04/03

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 09/11/03 Date Made Active at EDR: 10/29/03 Database Release Frequency: Quarterly Date of Data Arrival at EDR: 09/24/03 Elapsed ASTM days: 35 Date of Last EDR Contact: 09/24/03

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

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Date of Government Version: 09/11/03 Date Made Active at EDR: 10/29/03 Database Release Frequency: Quarterly Date of Data Arrival at EDR: 09/24/03 Elapsed ASTM days: 35 Date of Last EDR Contact: 09/24/03

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/13/03 Date Made Active at EDR: 09/18/03 Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/22/03

Elapsed ASTM days: 27

Date of Last EDR Contact: 09/08/03

RCRIS: Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/10/03 Date Made Active at EDR: 10/01/03 Database Release Frequency: Varies

Date of Data Arrival at EDR: 09/11/03 Elapsed ASTM days: 20 Date of Last EDR Contact: 09/11/03

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous

substances.

Date of Government Version: 12/31/02 Date Made Active at EDR: 02/03/03 Database Release Frequency: Annually Date of Data Arrival at EDR: 01/27/03

Elapsed ASTM days: 7

Date of Last EDR Contact: 10/27/03

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPANTIS Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG)

and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01 Database Release Frequency: Biennially Date of Last EDR Contact: 10/01/03

Date of Next Scheduled EDR Contact: 12/15/03

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A Database Release Frequency: Varies Date of Last EDR Contact: N/A

Date of Next Scheduled EDR Contact: N/A

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ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical

and health information to aid in the cleanup.

Date of Government Version: 07/09/03 Database Release Frequency: Annually Date of Last EDR Contact: 10/08/03

Date of Next Scheduled EDR Contact: 01/05/04

DELISTED NPL: National Priority List Deletions

Source: EPA Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the

NPL where no further response is appropriate.

Date of Government Version: 07/22/03 Database Release Frequency: Quarterly Date of Last EDR Contact: 08/04/03

Date of Next Scheduled EDR Contact: 11/03/03

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/25/03 Database Release Frequency: Quarterly Date of Last EDR Contact: 10/07/03

Date of Next Scheduled EDR Contact: 01/05/04

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/31/03 Database Release Frequency: Annually Date of Last EDR Contact: 10/23/03

Date of Next Scheduled EDR Contact: 01/19/04

MLTS: Material Licensing Tracking System Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

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Date of Government Version: 07/16/03 Database Release Frequency: Quarterly Date of Last EDR Contact: 10/07/03

Date of Next Scheduled EDR Contact: 01/05/04

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 08/27/03 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 10/01/03

Date of Next Scheduled EDR Contact: 12/29/03

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability.

USEPA compiles a listing of filed notices of Superfund Liens.

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Date of Government Version: 10/15/91

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 08/25/03 Date of Next Scheduled EDR Contact: 11/24/03

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers

of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/30/03

Database Release Frequency: Annually

Date of Last EDR Contact: 08/13/03

Date of Next Scheduled EDR Contact: 11/10/03

DOD: Department of Defense Sites

Source: USGS

Telephone: 703-648-5920

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 04/01/03

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/15/03

Date of Next Scheduled EDR Contact: 11/10/03

US BROWNFIELDS: A Listing of Brownfields Sites Source: Environmental Protection Agency

Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/15/03 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 09/15/03 Date of Next Scheduled EDR Contact: 12/15/03

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 09/08/03 Date of Next Scheduled EDR Contact: 12/08/03

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and

land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/01 Database Release Frequency: Annually Date of Last EDR Contact: 09/23/03

Date of Next Scheduled EDR Contact: 12/22/03

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TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

site.

Date of Government Version: 12/31/98

Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 09/02/03

Date of Next Scheduled EDR Contact: 12/08/03

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 08/21/03

Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/23/03

Date of Next Scheduled EDR Contact: 12/22/03

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/01 Database Release Frequency: Annually Date of Last EDR Contact: 10/20/03

Date of Next Scheduled EDR Contact: 01/19/04

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the

Agency on a quarterly basis.

Date of Government Version: 08/21/03 Database Release Frequency: Quarterly Date of Last EDR Contact: 09/23/03

Date of Next Scheduled EDR Contact: 12/22/03

STATE OF INDIANA ASTM STANDARD RECORDS

SHWS: List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

Source: Department of Environmental Management

Telephone: 317-308-3052

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 12/01/02 Date Made Active at EDR: 01/20/03 Database Release Frequency: Annually Date of Data Arrival at EDR: 01/06/03

Elapsed ASTM days: 14

Date of Last EDR Contact: 10/03/03

SWF/LF: Permitted Solid Waste Facilities

Source: Department of Environmental Management

Telephone: 317-232-0066

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

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Date of Government Version: 07/11/03 Date Made Active at EDR: 08/13/03

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 07/23/03

Elapsed ASTM days: 21

Date of Last EDR Contact: 10/15/03

LUST: Lust Leaking Underground Storage Tank List Source: Department of Environmental Management

Telephone: 317-308-3008

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/24/03 Date Made Active at EDR: 10/09/03 Database Release Frequency: Annually Date of Data Arrival at EDR: 10/01/03

Elapsed ASTM days: 8

Date of Last EDR Contact: 10/01/03

UST: Indiana Registered Underground Storage Tanks Source: Department of Environmental Management

Telephone: 317-308-3008

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/24/03 Date Made Active at EDR: 10/16/03 Database Release Frequency: Quarterly Date of Data Arrival at EDR: 10/01/03 Elapsed ASTM days: 15

Date of Last EDR Contact: 10/01/03

VCP: Voluntary Remediation Program Site List Source: Department of Environmental Management

Telephone: 317-234-0966

A current list of Voluntary Remediation Program sites that are no longer confidential.

Date of Government Version: 06/01/03 Date Made Active at EDR: 08/20/03 Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/11/03 Elapsed ASTM days: 9 Date of Last EDR Contact: 08/11/03

STATE OF INDIANA ASTM SUPPLEMENTAL RECORDS

SPILLS: Spills Incidents

Source: Department of Environmental Management

Telephone: 317-308-3008

Date of Government Version: 09/24/03 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 10/01/03

Date of Next Scheduled EDR Contact: 12/29/03

BULK: Registered Bulk Fertilizer and Pesticide Storage Facilities

Source: Office of Indiana State Chemist

Telephone: 765-494-0579

A listing of registered dry or liquid bulk fertilizer and pesticide storage facilities.

Date of Government Version: 09/17/03 Database Release Frequency: Varies

Date of Last EDR Contact: 09/15/03

Date of Next Scheduled EDR Contact: 12/15/03

EDR PROPRIETARY HISTORICAL DATABASES

EDR Historical Gas Station and Dry Cleaners: EDR has searched select national collections of business directories and has collected listings of potential dry cleaner and gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning and gas station/filling station/service station establishments. The categories reviewed included, but were not limited to: gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, dry cleaner, cleaners, laundry, laundromat, cleaning/laundry, wash & dry, etc.

This information is meant to assist and complement environmental professionals in their conduct of environmental site assessments, and is not meant to be a substitute for a full historical investigation as defined in ASTM E1527. The information provided in this proprietary database may or may not be complete; i.e., the absence of a dry cleaner or gas station/filling station/service station site does not necessarily mean that such a site did not exist in the area covered by this report.

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(A note on "dry cleaning" sites: it is not possible for EDR to differentiate between establishments that use PERC on-site as a cleaning solvent and sites that function simply as drop-off and pick-up locations or that are traditional wet cleaning/laundry facilities. Therefore, it is essential for environmental professionals to incorporate professional judgment in the evaluation of each site.)

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. @Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

BROWNFIELDS DATABASES

Brownfields: Brownfields Site List

Source: Department of Environmental Management

Telephone: 317-233-2570

A brownfield site is an industrial or commercial property that is abandoned, inactive, or underutilized, on which expansion or redeveloopment is complicated due to the actual or perceived environmental contamination.

Date of Government Version: 10/07/03 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 09/30/03 Date of Next Scheduled EDR Contact: 12/29/03

VCP: Voluntary Remediation Program Site List

Source: Department of Environmental Management

Telephone: 317-234-0966

A current list of Voluntary Remediation Program sites that are no longer confidential.

Date of Government Version: 06/01/03 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 08/11/03 Date of Next Scheduled EDR Contact: 11/10/03

INST CONTROL: Sites with Restrictions

Source: Department of Environmental Management

Telephone: 317-232-8603

A listing of Comfort/Site Status Letter sites that have been issued with Institutional Controls.

Date of Government Version: 10/07/03 Database Release Frequency: Varies

Date of Last EDR Contact: 09/30/03 Date of Next Scheduled EDR Contact: 12/29/03

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency

Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities-especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

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Date of Government Version: N/A
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation, This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: child Care Listing

Source: Family & Social Services Administration

Telephone: 317-232-4740

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

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STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM 10 m 的复数医有关的 1.00mm

TARGET PROPERTY ADDRESS

MICHIGAN PLAZA SHOPPING CENTER 3800/3801-3823 W MICHIGAN ST INDIANAPOLIS, IN 46222

TARGET PROPERTY COORDINATES

Latitude (North):

39.773579 - 39* 46' 24.9"

Longitude (West): Universal Tranverse Mercator:

86.226387 - 86° 13' 35.0" Zone 16

UTM X (Meters):

566254.8

UTM Y (Meters):

4402704.0

Elevation:

715 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model), be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

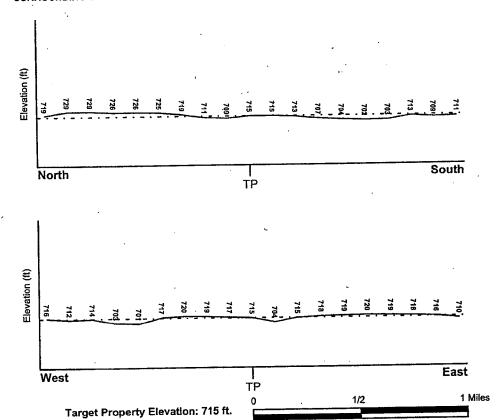
USGS Topographic Map:

2439086-G2 INDIANAPOLIS WEST, IN

General Topographic Gradient: General ESE

USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

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HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood

Target Property County

Electronic Data
YES - refer to the Overview Map and Detail Map

MARION, IN

1801590050D

Flood Plain Panel at Target Property:

Additional Panels in search area:

Not Reported

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property INDIANAPOLIS WEST

<u>Data Coverage</u> <u>YES - refer to the Overview Map and Detail Map</u>

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID 2 4 7 9 10 11 12	LOCATION FROM TP 1/2 - 1 Mile ESE 1/2 - 1 Mile East 1/2 - 1 Mile NE 1/2 - 1 Mile North 1/2 - 1 Mile WNW 1/2 - 1 Mile SNW 1/2 - 1 Mile SNW	GENERAL DIRECTION GROUNDWATER FLOW SE SSE S SSE E ENE S ENE
13 14	1/2 - 1 Mile South 1/2 - 1 Mile South	ENE SSE

For additional site information, refer to Physical Setting Source Map Findings.

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GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Paleozoic

System:

Devonian

Series:

Middle Devonian

Code:

(decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:

SAWMILL

Soil Surface Texture:

silty clay loam

Hydrologic Group:

Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class:

Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min:

> 60 inches

Depth to Bedrock Max:

> 60 inches

			Soil Layer	Information		· · · · · · · · · · · · · · · · · · ·	
	Bou	ndary		Classif	ication		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	17 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	17 inches	32 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
3	32 inches	58 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
4	58 inches	65 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam

loam silty clay sandy loam fine sandy loam

Surficial Soil Types: silt loam

loam silty clay sandy loam fine sandy loam

Shallow Soil Types: .

silt loam

Deeper Soil Types:

stratified

silt loam clay loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)
Federal USGS 1.000
Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	FROM TP
1	USGS0260826	1/4 - 1/2 Mile North
3	USGS0260774	1/2 - 1 Mile NNE
5	USG\$0260825	1/2 - 1 Mile ENE
6	USGS0260767	1/2 - 1 Mile SE
8	USGS0260765	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID FROM TP

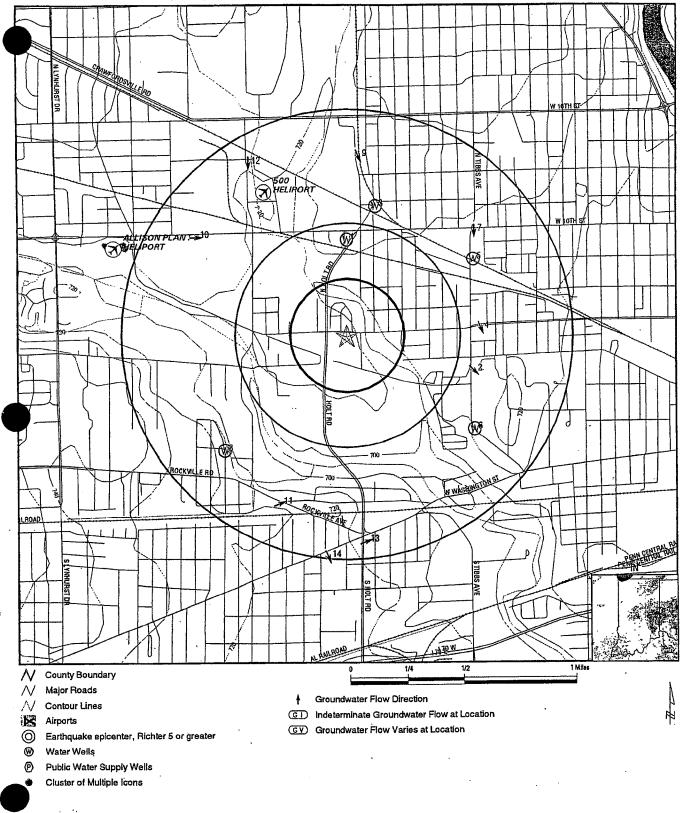
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID WELL ID LOCATION FROM TP

No Wells Found

PHYSICAL SETTING SOURCE MAP - 01073238.4r



TARGET PROPERTY: ADDRESS: CITY/STATE/ZIP: LAT/LONG:

Michigan Plaza Shopping Center 3800/3801-3823 W Michigan St Indianapolis IN 46222 39.7736 / 86.2264

CUSTOMER: CONTACT:

DATE:

Mundell & Associates, Inc Leena Lothe

01073238.4r INQUIRY #:

October 29, 2003 2:38 pm

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GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance EDR ID Number Database Elevation USGS0260826 North **FED USGS** 1/4 - 1/2 Mile Higher 394647086133500 USGS Site ID: Agency: Site Name: MARION COUNTY OBSERVATION WELL 70 AT INDNPLS IN Dec. Latitude: 39.77977 -86.22638 Dec. Longitude: Coord Sys: NAD83 IN State: Marion County County: Altitude: 723.32 05120201 Hydrologic code: Topographic: Flood plain Site Type: Ground-water other than Spring Const Date: 19740402 19740402 Inven Date: Well Type: Single well, other than collector or Ranney type Primary Aquifer: Aquifer type: Unconfined single aquifer Well depth: 23.6 D Hole depth: 25.0 Source: Not Reported Project no: Ground-water levels, Number of Measurements: 1 Feet below Feet to Date Surface Sealevel 1974-04-02 16.51 Site ID: 6702 AQUIFLOW 4447 ESE Groundwater Flow: SE 1/2 - 1 Mile Higher 23.36-24.24 Water Table Depth: 12/01/94 3 NNE **FED USGS** USGS0260774 1/2 - 1 Mile Higher 394656086132901 USGS Site ID: Agency: NAWQA URBAN WELL FU7 AT INDIANAPOLIS Site Name: Dec. Latitude: 39.78192 -86.224 Dec. Longitude: NAD83 Coord Sys: State: IN County: Marion County 727 Altitude: Hydrologic code: 05120201 Alluvial or marine terrace Topographic: Ground-water other than Spring Site Type: 19950621 Inven Date: Const Date: 19950525 Well Type: Single well, other than collector or Ranney type Primary Aquifer: 110VLTR Aquifer type: Unconfined single aquifer Well depth: 29 s Hole depth: 30 Source: Project no: Not Reported

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 3 Feet below Feet to Feet below Feet to Sealevel Surface Surface Sealevel Date Date 1996-07-11 22.05 1997-06-05 22.75 1995-06-20 23.67 Site ID: 7009 **AQUIFLOW** 4466 East 1/2 - 1 Mile Higher SSE Groundwater Flow: 24.23-26.47 Water Table Depth: 08/01/97 Date: **FED USGS** USGS0260825 1/2 - 1 Mile Higher 394642086125701 USGS Site ID: . Agency: NAWQA URBAN WELL FU3 AT INDIANAPOLIS Site Name: 39.7785 Dec. Latitude: -86.21589 Dec. Longitude: NAD83 Coord Sys: IN State: Marion County County: Altitude: 720 05120201 Hydrologic code: Alluvial or marine terrace Topographic: Ground-water other than Spring Site Type: 19950621 Inven Date: Const Date: 19950525 Well Type: Single well, other than collector or Ranney type 110VLTR Primary Aquifer: Aquifer type: Unconfined single aquifer Well depth: 29 Source: S 30 Hole depth: Project no: Not Reported Ground-water levels, Number of Measurements: 3 Feet to Feet below Feet below Feet to Sealevel Date Surface Surface Sealevel Date 1996-07-11 21.1 1997-06-05 20.6 1995-07-24 22.77

FED USGS USGS0260767 SE 1/2 - 1 Mile

394603086125700 Site ID:

Agency: MARION COUNTY OBSERVATION WELL 55 AT INDNPLS IN Site Name:

39.76754 Dec. Latitude:

Dec. Longitude: -86.21582 NAD83 Coord Sys:

State: IN County: Marion County Altitude: 723.71 Hydrologic code: 05120201 Not Reported Topographic: Ground-water other than Spring Site Type:

19740310 Const Date: 19740310 Inven Date:

Single well, other than collector or Ranney type Well Type:

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Primary Aquifer:

1120TWS

Aquifer type:

Unconfined single aquifer

Well depth:

39.6

Hole depth: Project no:

40.0 Not Reported Source:

D

Ground-water levels, Number of Measurements: 0

NE 1/2 - 1 Mile

Higher

Site ID:

1022

Groundwater Flow: Water Table Depth: s

16.58-18.22 09/01/90

Date:

SW 1/2 - 1 Mile

Agency:

USGS

Site ID: MARION COUNTY OBSERVATION WELL 71 AT INDNPLS IN

394558086141200

AQUIFLOW

FED USGS

4603

USGS0260765

Site Name: Dec. Latitude:

39.76615

Dec. Longitude: Coord Sys: State:

-86.23666 NAD83 IN

County: Altitude: Hydrologic code: Marion County 722.44 05120201 Not Reported

Topographic: Site Type:

Ground-water other than Spring

Const Date: Well Type:

19740402

Inven Date: Single well, other than collector or Ranney type

Primary Aquifer:

1120TWS Unconfined single aquifer

Aquifer type: Well depth:

25.4

25.4

Source:

D

19740402

Hole depth:

Date:

Date:

Date:

Project no: Not Reported

Ground-water levels, Number of Measurements: 0

North 1/2 - 1 Mile Higher

Site ID: Groundwater Flow: Water Table Depth:

6840 SSE 14.44-21.80 02/01/89

AQUIFLOW 4459

10 WNW 1/2 - 1 Mile Higher

Site ID: Groundwater Flow: Water Table Depth: 1577 Ε 12.0-12.48

09/01/90

AQUIFLOW 4351

11 SSW 1/2 - 1 Mile

Higher

Site ID: Groundwater Flow: . Water Table Depth: -

6704 ENE 14.56-21.48 02/01/95

AQUIFLOW

TC01073238.4r Page A-10 ·

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
12 NNW 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Water Table Depth: Date:	6857 S 7.8-9.46 05/01/90	AQUIFLOW	4598
13 South 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Water Table Depth: Date:	1068 ENE 10.94-13.59 10/01/93	AQUIFLOW	4337
14 South 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Water Table Depth: Date:	18178 SSE AVG 13 08/01/93	AQUIFLOW	4543

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: IN Radon

Radon Test Results

City	County	Zip	Result
	·		
INDIANAPOLIS	MARION	46222	7.699999809265137
INDIANAPOLIS	MARION	46222	2.5
INDIANAPOLIS	MARION	46222	5.800000190734863
INDIANAPOLIS	MARION	46222	0.899999976158142
INDIANAPOLIS	MARION	46222	0.699999988079071
INDIANAPOLIS	MARION	46222	6.5
INDIANAPOLIS	MARION	46222	1.799999952316284
INDIANAPOLIS	MARION	46222	14.30000019073486
INDIANAPOLIS	MARION	46222	5.900000095367432
INDIANAPOLIS	MARION	46222	8.899999618530273
INDIANAPOLIS	MARION	46222	5.5
INDIANAPOLIS	MARION	46222	6.199999809265137
INDIANAPOLIS	MARION	46222	11.19999980926514
INDIANAPOLIS	MARION	46222	7.5
INDIANAPOLIS	MARION	46222	2.599999904632568
INDIANAPOLIS	MARION	46222	7.900000095367432
INDIANAPOLIS .	MARION	46222	3.799999952316284
INDIANAPOLIS	MARION	46222	17.29999923706055
INDIANAPOLIS	MARION	46222	2.29999952316284
. INDIANAPOLIS	MARION	46222	4,900000095367432
INDIANAPOLIS	MARION	46222	1.200000047683716
INDIANAPOLIS	MARION	46222	4
INDIANAPOLIS	MARION	46222	6.300000190734863
INDIANAPOLIS	MARION	46222	4.300000190734863
INDIANAPOLIS	MARION	46222	7.5
INDIANAPOLIS	MARION	46222	11.80000019073486
INDIANAPOLIS	MARION	46222	0.40000005960465
INDIANAPOLIS	MARION	46222	4
INDIANAPOLIS	MARION	46222	7.300000190734863
INDIANAPOLIS	MARION	46222	0.300000011920929
INDIANAPOLIS	MARION	46222	5.300000190734863
INDIANAPOLIS	MARION	46222	7.900000095367432
INDIANAPOLIS	MARION	46222	0.89999976158142
INDIANAPOLIS	MARION	46222	5.599999904632568
INDIANAPOLIS	MARION	46222	5.300000190734863
INDIANAPOLIS	MARION	46222	5.599999904632568
INDIANAPOLIS	MARION	46222	4.09999904632568
INDIANAPOLIS	MARION	46 22 2	1.600000023841858
INDIANAPOLIS	MARION	46222	7.599999904632568
INDIANAPOLIS	MARION	46222	13.19999980926514
INDIANAPOLIS	MARION	46222	8
INDIANAPOLIS	MARION	46222	11.10000038146973
INDIANAPOLIS	MARION	46222	16
INDIANAPOLIS	MARION	46222	10.30000019073486
INDIANAPOLIS	MARION	46222	9.5
INDIANAPOLIS	MARION	46222	6.5
INDIANAPOLIS			

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	-		
	MARION	46222	7.300000190734863
INDIANAPÓLIS	MARION	46222	21.29999923706055
INDIANAPOLIS	MARION	46222	3.700000047683716
INDIANAPOLIS	MARION	46222	1.899999976158142
INDIANAPOLIS	MARION	46222	8.199999809265137
INDIANAPOLIS	MARION	46222	2
INDIANAPOLIS	MARION	46222	1.200000047683716
INDIANAPOLIS	MARION	46222	8.899999618530273
INDIANAPOLIS	MARION	46222	8.300000190734863
INDIANAPOLIS	MARION	46222	6.5
INDIANAPOLIS	MARION	46222	8.100000381469727
INDIANAPOLIS	MARION	46222	6.400000095367432
INDIANAPOLIS	MARION	46222	6.599999904632568
INDIANAPOLIS	MARION	46222	6.199999809265137
INDIANAPOLIS	MARION	46222	4.5
INDIANAPOLIS	MARION	46222	1.79999952316284
INDIANAPOLIS	MARION	46222	3.700000047683716
INDIANAPOLIS	MARION	46222	5.5
INDIANAPOLIS	MARION	46222	5.5
INDIANAPOLIS	MARION	46222	17
INDIANAPOLIS	MARION	46222	4.400000095367432
INDIANAPOLIS	MARION	46222	7
INDIANAPOLIS	MARION	46222	24.39999961853027
INDIANAPOLIS	MARION	46222	11.89999961853027
INDIANAPOLIS	MARION	46222	0.600000023841858
INDIANAPOLIS	MARION	46222	3
INDIANAPOLIS	MARION	46222	16.29999923706055

Federal EPA Radon Zone for MARION County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 46222

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	5.100 pCi/L	0%	100%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	8.625 pCi/L	0%	100%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS

1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOWR Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995: Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

TC01073238.4r Page A-14

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Public Water Supply Wells

Source: Department of Environmental Management

Telephone: 317-308-3323

Community and non-community drinking water wells.

RADON

State Database: IN Radon

Source: Department of Health Telephone: 317-233-7148 Radon Test Results

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

APPENDIX D

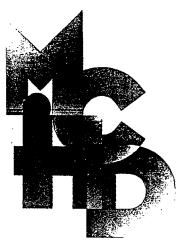
Marion County Health Department Records

O:\M01046 Michigan Meadows Apts\Phase I Investigations\Phase I_Apts.doc

APPENDIX D

Marion County Health Department Records

O:\M01046 Michigan Meadows Apts\Phase I Investigations\Phase I_Apts.doc



MARION COUNTY
HEALTH DEPARTMENT
Making a difference

November 4, 2003

Leena Lothe Mundell & Associates, Inc 429 East Vermont Street, Suite 200 Indianapolis IN 46202 3688

RE: 3800 W Michigan Street 3800-3823 W Michigan Street 3819 W Michigan Street 700 N Olin

Dear Ms. Lothe,

Copies of the information from the files of the Marion County Health Department concerning the aforementioned properties were provided to you on November 4, 2003. This file search reflects only what is included in our department's file. We recommend you also contact other agencies involved with environmental and safety issues.

If you have any questions please feel free to contact me at (317) 221-2298.

Sincerely

Adam Rickert, CHMM
Supervisor, Water Quality
Bureau of Environmental Health
Department of Water Quality and
Hazardous Materials Management

3838 NORTH RURAL STREET
INDIANAPOLIS, INDIANA 46205

TELEPHONE (317) 221-2000



DEPARTMENT	OF WATER QUALITY AND	
Date May 05, 97 HAZARDOUS M	ATERIALS MANAGEMENT of Public Health	K
TE ATE ATE	TELD SHEET	R.
ame or Description of Premises	Address	
Person Interviewed Phone	3800 w. Michiga Person Legally Responsible	
Jani Martia, property may or	201	te Phone
Mr. Campbell, Contractart 291-51	36	
Cori Sanders Complaintant - 486-92	1 81	
I space with Jerry Martin	., She soid Michigan	apts is
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	July The Mail	(
	Indply IV, 46241.	
ma) of lellas what inst	phell on the teleph.	one,
Mr. Comphen soid all his to		
postivle applicators registà	sed w/ State Chamist	olline.
As also said that Building	y 10 (complaintant's all	ress)
As also said that Bulding with Diazaran	77 250 PT465+ AN	MAL ST
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(D) (= 11 000) CG.D. SEE	to service of between	ie Spravino
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book a sed bluew I knia	I den to prose	zunknur 20
during & possibly sometimes I sould soud her informat	spearing &	also saral
I could send her intermet	ion on the Chemical	-s used
il see madel, she said	No that see was me	wing this
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CHECK FOR PROPER FILING:	Check and Comple	:te:
child facility schools	complaint unjustified complaint	problem correcte referred to:
ompanies solid waste:	order issued	
surface water infectious waste	recheck:	ready to file
swimming poolCSO lift station UST	date	
miscellaneous NPDES	field test	
other; specify: PIR; specify:		A1M0042cc

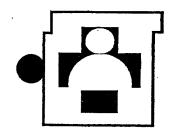
---AIM001266-

BUREAU OF ENVIRONMENTAL HEALTH

DEPARTMENT OF WATER QUALITY AND HAZARDOUS MATERIALS MANAGEMENT COMPLAINT FORM

		5/5 Pan
Census Tract	Date Compl	aint Taken 5/4/92 P.M.
District Nurth West		itial Response
Specialist's Name Bother WAN DE	MARK	
Form of Complaint: Phone	Letter	In Person
Name of Person/Owner/Establishment Compl.		
Address/Location Complained About		
Description of Complaint (Use Complainant COMPLANDANT CONCERNED ACOUT		USEDS NEAR HER
BARTHENT	· · ·	
	•	
Complainant: LORI SANDERS ZN	d Pho	one 486-9481
Complainant's Address 3800 W. MIG	GLONN, AT	1006
REFERENCE TROM HOUSINGS	-	D. Millure
Action Taken: Justified \(\frac{1}{2} \) Unjustified	Undetermine	ed Order Issued
See Inspection Narrative	Dated	55/65/92
Response made to Complainant Yes	4	No
Name of Investigator (Au)	Grang	

(DWQHMM 4/87)



Department of Water Quality and Hazardous Materials Management 3838 N. Rural Street Indianapolis, Indiana 46205 (317) 541-2266

January 15, 1993

Mr. Erick Mahone Michigan Apartments Apartment #711 3800 W. Michigan Street Indianapolis, IN 46222

Dear Mr. Mahone:

I am writing to confirm our phone conversation on January 7, 1993. On that day, I called Indiana University's Medical Center because I had information that linked you to the improper disposal of dialysis bags that you had used. The dialysis bags appeared to contain peritoneal fluid and were found in a dumpster at the Willow Lake Gardens Apartments. Members of my department's emergency response team were sent to that complaint.

During our conversation you admitted that you improperly disposed of the bags. Ms. Smith and I informed you about proper disposal of peritoneal fluid. You stated that you would retrieve the bags and properly dispose of the fluid.

I have verified that the dialysis bags were retrieved from the dumpster. I encourage you to continue to dispose of peritoneal fluid in an approved manner. This is easy to do since you can merely dispose of the fluid by emptying it in a toilet.

I am hopeful that you will continue to properly dispose of your peritoneal fluids. This will enable us to maintain a better environment and avoid the need for any enforcement action. If you have any questions about this, please call me at 541-2266.

Sincerely,

Dave McClure Supervisor

BUREAU OF ENVIRONMENTAL HEALTH

Department of Water Quality and Hazardous Materials Management

A Division of the Health and Hospital Corporation of Marion County

HOUSING CONDICAINT FORM

DATE: FS:55 CENSUS WACE: 417 EES: 19
VIOLATION ADDRESS: 3800 \$ 1108 W Michigan &
VTOLETANDE TO THE TOTAL PROFILE OF THE PROFILE OF T
need general inspection - Sound like
water running - Bad odor / making
Tenant Sick - & Burning
TILLSE: MAC: ROUSTING: X ENTIREMENTS: LILLI

COMPLATIONS INTORMATION
Minte Lena B Webston
NOTETIES. 3800 # 1808 W michiganst
CHIMSTATE FARS IN THE 46 222
2700 317, 486-1287
Y D O LEI O L'A L'EL L'A L'A L'A L'A L'A L'A L'A L'A L'A L'
michigan apts LL
Rush
To Pollar
Jeff is this yours
Cet me 16 now, where
To go with this one
Please (iz
1) Esser, CK



Department of Water Quality and Hazardous Materials Management Division of Public Health

FIELD SHEET

Name: P. Thurs	_	ate 6-14-95 Time 9:50 A.m.
Company:	Webster	Responsible Party: Contact Person: Title: Company: Address: City/State/Zip: Telephone:
Date & Time 6-14-96	3800 W. Michigan #/100	f.
9:50 Am.	Met w/ Mrs Webster	- She claimed maintenance
	dept at Apts put	drain cleaner in all her drains
	last week - She	had odor for I day or so.
	No oper today.	
	She WAS ON CERNED	w/ Lye from drain cleaner coming
	out of fau cetts when	She bathed
	She also was concer,	red + irrelated w/ neighbor who
	constantly had water	- rounning - probably faulty toitel.
	I political her to y	ell Apt. Management.
		. "
	complaint unjustifi	ed for odor / steleness.
	Check for Proper Filing	Check and Complete
Companies CSO Groundwater Lift Station X Miscellaneous Schools	Solid Waste - specify:Surface Water - specify:NPDESOther:	Send to contact agencyOrder issuedSend to reporting agencyRecheck date:Send to:
•	re	Specialist: Williamu.



Department of Water Quality and Hazardous Materials Management Division of Public Health

FIELD SHEET

MCHD Contacte	d.by:
	Date 6/26/96 Time 8:05 pm
Address: 38	00 M Michigan #110D
Reported by:	Responsible Party:
Name:	S Drug Contact Person: Ua known
Title:	Title:
Company:	Company:
Address:	Address:
City/State/Zip:	486-1287 Telephone:
•	
Date & Time	3800 W. Mrchigan # 1108
6/26/96	
805 Am.	- Mrs Webster called climing bas spor making her sich
	+ glase on new Kitchen Floor making her feet hot oven
	with her Sheeson
	= I Observed only & slight oper sort of like Air Grouskar
	or chaner - Closets were Kind of musty / Animal-live
·	Smell outside inside
	- DidTVA Pig 0,30 6.90
	FIP 0160 2.10
	Toldwas Webster I would have his a cauldwall Call to
	set up 4-8hr Chancoal tube
	- Adult protective sorvices is involved
	•
-	
	Check for Proper Filing Check and Complete
Companies	Solid Waste - specify:Send to contact agencyOrder issued
CSOGroundwater	Send to reporting agencyRecheck date: Surface Water - specify: Send to: Problem corrected
ift Station	Surface Water - specify:Send to:Problem correctedSample:
Miscellaneous	<u> </u>
Schools	Other:
	RE NPH
	117(> 1/117 17)

Marion County Health Department Department of Water Quality and Hazardous Materials Management

FIELD SHEET					
A Jonse	3800 W Michigan		Company		
Address:			lame:		
Response Date:	Tuesday January 22, 2002		Contact	Myron [Dokes
			Person:		•
Response Time:	3:30 p.m.	A	Address:		
Copy to:		C	City/State/Zip:		
		Т	elephone:	240-436	69, cp 432-8557
Field Notes:					
	rom manhole at mobile home allons a minute into the creek.		as on the bank	of Little E	Eagle Creek and was flowing
repaired by Friday					not working. The lift station was n also had the soil around the
	•			•	
	•				
					-
		•			
,					
		•			
	•				·
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					•
		•			
		:			
Facility Type (che		Code (check all th	nat apply) PDES (NPD)		_x_ Initial or Recheck
(CF)	O) Asbestos (AS)	k i	o Dublio Hoolifi	(NIDLI)	Bachaek Data
Commercial (C	BIO	!N	o Public Health ((NPH)	Recheck Date:
Dry Cleaner (D	cso (cso)	·O (OH)	ccupational Hea	alth	
Refuse Process	ing Fish Kill (FK)		adon (RA)		Referred
(RP) _x_ Residential (R	E) x General Public	· Se	eptic System (SF	PT)	to:
	Health(GPH)				Called Complete authlitis
School (SC)	GW Contaminati	(SLC			Called Complainant/Notifier
Solid Waste Dis	posal GW Sample (GV	VS)S	oil Sample (SLS))	NOV Issued
Street (ST)	Hazardous Mate	erial (HM) So	olid Waste (SLD) İ	x_ Compliance/Defect Corrected
Surface Water			Spill (SPL)	· .	Noncompliance
/imming Pool			W-Contamination	\mathbf{n}	
		· (SW		.	
Vacant (VA)	Lift Station (LS)		W Sample (SWS	S) ,	21:0:1
Vehicle		U:	ST	-	Signature:
Maintenance(VM)	Leaking UST (LU	IS)		l	Adam Rickert

DRY CLEANER INSPECTION CHECKLIST

		late:		-	Reason: 12 Initial (I) Recher	ck (R)
		onta			les Dudson Building: 🖸 Free Standing (F)	
City/S		itle:			Attchd Commercial	I (C)
II	ber: 8		tor:		Attchd Residential (R	?)
1	D COMMUNICATION PROGRAM	Wt.	i -		APS REQUIREMENTS	Wt.
(<u>!!</u>	Written program available	5			Perc purchase receipts for last 12 months available	5
02	Contains an MSDS for all hazardous substances on site	3		(39)	Annual running total of perc consumption calculated / O gallyr	3
03	Contains a list of all hazardous substances on-site	2		40	Number of dry cleaning machines: Dry to dry Transfer	
04	Indicates who is responsible for maintaining MSDSs	2		41	Source category: Small area 🚨 Large area 🚨 Major	
05	Explains the proper labeling of containers	1	سا	42	Facility type: New (on or after Dec 9, 1991) YExisting	
06	Explains how to respond to non-routine tasks	1		43	Submitted "Initial Notification Reporting Requirements for Perc Dry	1
07	Decuments training of employees tracommended only)	R		<u> </u>	Cleaning Facilities" for to the EPA	\perp
-	EN RESPIRATOR PROGRAM // A	1 =	, t e	44	Submitted "Compliance Report for Pollution Prevention" to the EPA	$\perp \perp$
08	Personal air monitoring has been performed (required in plants with	5		45	Owners manuals for all dry cleaning equipment available	
-	transfer machines, recommended for all others)	<u> </u>		46)	Written log of leak detection and repair program available (weekly	3
09	Written respirator program available (required if exposed to > 100	5		ھا	for Existing Large Area Sources; biweekly for all others)	Ш
<u></u>	ppm TLV-TWA or > 200 ppm TLV-STEL)			47/	All repairs made within 24 hours, or parts ordered within 2 days	3
10	Explains the proper usage and limitations of respirators	2		<u> </u>	and repairs made within 5 days of receipt of the parts	
11	Requires medical surveillance	2			SMALL AREA AND NEW LARGE AREA SOURCES	
12	Requires the use of NIOSH-approved respirators	2		48	All new machines (manufactured after Dec 9, 1991) are closed	5
13	Requires regular inspection and cleaning of respirators	2			loop, refrigerated dry-to-dry machines	
14	Respirators are stored properly and are in good condition	2		49	Records available of weekly measurements of the exhaust on the	3
WRITT	EN EXPOSURE CONTROL PLANA/A			<u></u>	outlet side of all refrigerated condensers (must be <45° F)	
15	Written Exposure Control Plan available (required if employees	5			ING LARGE AREA SOURCES	
	handle laundry contaminated with bodily fluids			50	Submitted "Compliance Report for Control Requirements" to EPA	- 1
16	Includes a copy of the standard and explains its contents	2			(not required until 10/23/96, but must comply with the following if	- 1
12	Explains universal precautions	2			they have submitted this report)	
	Employees are trained on the symptoms of bloodborne diseases and	2		51	If using a refrigerated condenser on a washer, records available of	3
	modes of transmission			,	weekly measurements of the inlet and outlet side of the	
19	Explains the selection, use, location, handling and disposal of PPE	2			refrigerated condenser (difference must be at least 20°F)	
20	Hepatitis B vaccination provided to employees free of charge	2		52	If using a refrigerated condenser on a dry-to-dry machine, reclaimer,	3
21	Explains the procedure to follow if an exposure occurs	3			or dryer, records available of weekly measurements of the exhaust outlet temperature of all refrigerated condensers \(\lambda must be \leq 4FF \right) \)	1 1
22	Describes the signs, labels, and color coding of infectious waste	2		53	If using a carbon adsorber, records available of weekly	3
	containers			33	measurements of the concentration of perc in the carbon adsorber	1,
23	Documents training of affected employees initially and annually	3			exhaust. Must be taken using a detector tube while the machine is	1 1
WRITT	EN LOCK-OUT/TAG-OUT PROGRAM				venting to the carbon adsorber at the end of the last dry cleaning	
24	Written lock-out/tag-out program available	5			cycle prior to descrption (must be ≤100 ppm)	
25	Requires stored energy to be released or blocked before equipment	3	,	HAZAF	IDOUS WASTE DISPOSAL AAO	L3
	is locked out for repair			54	Amount of hazardous waste generated per month: < 220 lbs	
26	Requires employees to check the lock-out by attempting a start	2			If less than 220 lbs, exempt from the following requirements	ľ
L	after lockout			55	EPA Identification number: TMD 133360693	5
27	Documents training of affected and authorized employees	3		(56)	Waste manifests for last three years available (forunts)	4
28	Requires that employees can be identified by their locks and tags	2		57	Licensed hazardous waste hauler used to transport waste	4
29	Provides authorized employees with individually keyed locks	2		58	Contingency plan for waste-related emergencies, including 24 hour	3
30	Requires authorized employees to keep possession of their individual	2			contact (not required to be in writing for CESQG or SQG)	
	keys during a lock-out procedure			PERCH	LOROETHYLENE STORAGE AREA - E.J. Thomas	
31	Identifies safe procedure for machines that cannot be locked-out or	2	Ø	59)	All perc containers labeled with proper name and hazard warning	5
	tagged-out]	60	All perc stored indoors in closed, non-leaking containers	5
EMERG	ENCY ACTION PLAN			61	All perc containers stored in a manner to allow easy daily inspection	R
32)	EAP available (oral if < 10 employees, written if ≥10 employees)	5		62	Secondary contamment or floor drain covers available	R
33_	Designates escape procedures and routes and employee accounting	2		83	Spill plan in place to reduce less and contempeton during perc spills	R
	following an evacuation			54	Parc transferred using spigots or pumps from properly vented	R
34	Describes means of reporting emergencies and lists emergency	2			containers describ to machines	
	phone numbers			65	Containers emptied completely before cleaning or disposal	
35	Describes rescue and medical duties of employees	2		66	Volume of perc stored on site is kept to a minimum	R R
36	Addresses fires, chemical spills, tornadoes, blizzards, floods, and	2	Ļ		ING AREAS	
\	bomb threats		ŗ	67	All containers are labeled with proper name and hazard warning	
37	All employees trained at least once (documentation not required)	2	l	(68)	All spotters are trained on the hazards of all spotting solvents	4 3
				العجا	Al Spotters are trained on the nazards of an spotting solvents	

HAZAF	IDOUS WASTE STORAGE AREA	Wt.
69	All waste stored in a secure location in sealed, leak-proof containers	5
70	All containers labeled "Hazardous Waste" or with similar words	4
(71)	Accumulation dates recorded on all hazardous waste containers	3
	Small Quantity Generators: accumulate waste for ≤180 days	3
70-	CESQG: store less than 2,200 lbs. of hazardous waste on site	3
74	CESOG: use licensed waste hauler to transport hazardeus waste or dispose of hazardeus waste at Tox-Away Day	R
GENER	AL WORK AREA	
(MM)	Connected to the sanitary sewer—O/c	5
76)	IOSHA workplace poster displayed where all employees will see it	3
77	Emergency telephone numbers posted where they can be found	3
(78)	"Exit" signs posted and illuminated; "Not an Exit" signs posted	3
79	Aisles are clear for egress purposes	3
	All moving chains, belts, gears, and fan blades within 7 feet of the working level are properly guarded	4
81	Fire extinguishers mounted properly, serviced annually and marked accordingly	3
82	Work areas are clean and well lit	2
83	Good housekeeping is employed to allow easier detection of leaks and prevent additional contamination during spills	R
84	Recycling program in place for hangers and garment hags	R
85	Waste reduction program in place for packing materials and containers	R

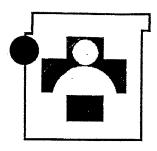
DRY C	LEANING EQUIPMENT	W
86	Cartridge filters are drained in their housings or a sealed container for at least 24 hours	4
87	Machine doors are kept closed except when loading and unloading	3
88	Dry cleaning equipment is free of leaks	5
	Solvent mileage tracked (pounds of garments per gallon of perc)	R
902	Preventive maintenance program in place	R
91	Dry cleaning equipment efficiency is optimized	R
92	Wet cleaning used whenever possible	R
93	Transfer machines are being replaced	R
94	Recovering solvent vapors using carbon adsorbers or refrigerated condensors	R
95	Recover waste selvent using a still or muck cooker	R
96	Regenerate carbon adsorbers	R
ELECT	RICAL	
97)	Openings in electrical enclosures and fittings closed with appropriate covers, plugs, or plates	3
98	Switches, receptacles, and junction boxes covered properly	3
99	Extension cords are not used as permanent wiring	3
100	All wiring is in good condition, including no fraying or deterioration or missing grounds	3
101	Flexible cords and cables are free of splices and taps	3.
102	Circuit breakers and disconnecting switches labeled	3
1	Circuit breakers and disconnecting switches labeled - Serious or top priority; 1 - Minor or low priority; R - Recommendation	•

Notes:
Does AAD nept to take barrel?
Exhaust for in bothrown
Hot water in buthour
Paper touchs in bethrooms
Lasel restrum door
<u> </u>
& Sent LO/TO Parvicen



Receipt for Certified Mail
No Insurance Coverage Provided Do not use for International Mail (See Reverse)

993	Sent to Owner			
등	Street ancharies Dodson			
Marc	P.O., State and ZIP Code Michig	gan Road		
	Indianapolis IN	I 46222		
380	Postage	\$		
E.	Certified Fee			
PS Form 3800, March 1993	Special Delivery Fee	-		
-	Restricted Delivery Fee			
	Return Receipt Showing to Whom & Date Delivered			
	Return Receipt Showing to Whom, Date, and Addressee's Address			
	TOTAL Postage & Fees	\$		
	Postmark or Date			
Į				



3838 N. Rural St. Indianapolis, Indiana 46205 (317) 541-2270

December 14, 1994

Owner Charles Dodson 3819 W. Michigan Road Indianapolis, IN 46222

Dear Sir or Madam:

An inspection was made of ACCENT DRY CLEANERS located at 3819 W MICHIGAN ST on December 12, 1994. You are hereby notified that the following observed defects are a violation of The Code, Chapters 19 and/or 20, of the Health and Hospital Corporation of Marion County. Each defect is followed by a suggested correction.

Chapter & Section 20-401/ 19-307

Observed Defects and Suggested Corrections

No written hazard communication program.

Establish a written hazard communication program that includes Material Safety Data Sheets for all the hazardous substances on-site, a list of those hazardous substances, a description of the proper labeling of containers, provisions for employee training on hazardous substances, and a list of non-routine tasks that involve hazardous substances. The sample hazard communication program that we previously sent to you can be used as a guide, but your plan must be specific for your plant.



No written hazardous energy program (lock-out / tag-out).

All machinery or equipment is required to be de-energized or disengaged and blocked or locked-out during cleaning, servicing, adjusting or setting up operations, whenever such work is required. Provide written instructions for all lock-out/tag-out procedures to your employees who use or service such machinery or equipment and document training of all affected and authorized personnel. Provide employees with individually keyed personal safety locks, and provide means to identify any or all employees who are working on locked-out equipment by their locks or accompanying tags. In the event that equipment or lines cannot be shut down, locked-out and tagged, ensure that a safe job procedure is established (written) and rigidly followed.

Chapter & Section

Observed Defects and Suggested Corrections

No emergency action plan.

Develop and implement an emergency action plan that includes escape procedures and routes employee accounting following an evacuation, rescue and medical duties, means of reporting emergencies, and persons to be contacted for information or clarification. The plan should address emergencies that the employer may reasonably expect in the workplace, including fires, chemical spills, tornadoes, blizzards, floods, and bomb threats.

In addition to training, the emergency action plan should address fire prevention, including a list of all major work place hazards, proper handling and storage combustible material, potential ignition sources, and type of fire equipment or systems to control a fire involving them, the names or job titles responsible for maintenance of equipment and ignition prevention or control systems, persons responsible for control of fuel source hazards, as well as housekeeping procedures to control accumulations of flammable and combustible waste materials and residues.

ok alakag

For employers with 10 employees or less, the emergency action plan does not need to be in writing, but it must be communicated orally to the employees. Employers with more than 10 employees must establish a written emergency action plan.

Perphloroothylene purchase receipts for last 12 months are not available.

Keep all perchloroethylene purchase receipts on-site for at least 12 months.

19-307

Annual running total of perchloroethylene consumption not available.

Calculate and record your annual running total of perchloroethylene consumption on the first working day of every month. For instance, on November 1, 1994, you should have added the number of gallons of perc you purchased between November 1, 1993 and November 1, 1994. If you have not kept track of your perc consumption, estimate it and note that it is estimated number.



Written log of weekly or biweekly leak detection and repair program is not available.

Keep a written log of your weekly or biweekly leak detection and repair program on-site.

0k 19-307/ 35 20-401 1/n/96 Repairs to dry cleaning equipment or machines have not been made within 24 hours of detection or parts have not been ordered within 2 days of detection and repairs made within 5 days of receipt of those parts.

All repairs to dry cleaning equipment or machines must be made within 24 hours of detection, or parts ordered within 2 days of detection and repairs made within 5 days of receipt of those parts. Keep a written log of all repairs, including the date of repair.



Hazardous waste manifests for last the three years are not available.

Provide hazardous waste manifests for the last three years.

X 20-201

Comainers of hazardous substances are not labeled properly.

Label all containers of hazardous substances with the proper name and hazard warning. Retain the Department of Transportation labels and markings on all containers until the containers are sufficiently cleaned of residue.



Spotters are not trained on the hazards of all the spotting solvents.



Train all spotters on the hazards of all the spotting solvents that they use. This should be a part of your written hazard communication program.

Accumulation dates are not recorded on containers of hazardous waste.

Record on all containers of hazardous waste the date when hazardous waste was first placed in that container.

Chapter &	
Section	Observed Defects and Suggested Corrections
19-307	IOSHA workplace poster is not displayed in a prominent location where employees are likely to see it.
	Display IOSHA workplace poster in a prominent location where employees are likely to see it.
19-307	Doorways are not marked or labeled properly.
	Mark exit(s) with an exit sign(s) that is lit by a reliable light source. Mark all doors which could be mistaken for an exit with a sign indicating its purpose or "NOT AN EXIT."
19-307	Missing, inadequate or defective guard(s) on chain(s), belt(s), gear(s) or fan blade(s).
112196	Repair/replace all missing, defective or inadequate guards. All energized parts of equipment is to be guarded against contact by approved enclosures. All fan blades within 7 feet of the floor must be protected with a guard having openings no larger than 1/2 inch. All machinery guards must be secure and so arranged that they do not pose a hazard in their use.
es agreem	Electric service equipment, outlets, fixtures, and wiring in poor repair as evidenced by missing enclosure covers (exposed wiring), missing cable plannps (where cables enter enclosures), or unprotected non-metallic sheathed cable.
•	Employ a qualified electrician to repair all electric service equipment, outlets, fixtures, and wiring to a condition in accordance with the National Electrical Code.
19-404/307	Extension cords are used as permanent wiring.
1/2/95	Discontinue use of extension cords as permanent wiring. Appropriately wire fixtures or appliances or provide properly wired outlets to fixtures or appliances in accordance with the National Electrical Code.
19-307	Alolekhalist lan-in-restroom.
19-307	Install exhaust fan in restroom. No hot water in restroom.

Corrective actions must be completed by January 16, 1995. Any person affected by this notice may request a hearing on this matter. Such a request must be made in writing and received in our Legal Department (located at 3838 N. Rural St., Indianapolis, IN 46205) within 10 business days of the receipt of this notice. Your compliance with this Notice of Violation does not release you from your responsibility to comply with other applicable local, state, and federal regulations, nor does it imply that you are in compliance with all local, state, and federal regulations.

A list of recommendations are attached to this notice. Although these are not requirements, we urge you to consider each recommendation. If you have any questions, please call me at 541-2270.

Sincerely,

Gregory L. Spears

Environmental Health Specialist III Department of Water Quality and Hazardous Materials Management Bureau of Environmental Health

Provide hot water in restroom.

No paper towels in restroom.

Provide paper towels in restroom.

AIM001278

RECOMMENDATIONS

following are recommendations as part of our pollution prevention program. Although you are not required to implement any of these opportunities, we recommend you consider all of them. More detailed information is included in the information we sent to you during the inital mailing. If you have questions about any of these recommendations, please call me at 541-2270 for more information.

Track solvent mileage by dividing the total weight of garments cleaned per gallon of dry cleaning solvent consumed. An increase in solvent mileage indicates better efficiency. A decrease in solvent mileage may indicate a leak or other problems with your dry cleaning equipment.

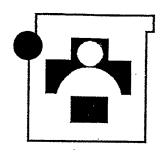
Establish and maintain preventive maintenance schedule. Preventive maintenance can reduce the risk of spills, leaks, and down time, increase efficiency, and conserve resources. Regularly replace seals and gaskets, check air relief valves and exhaust ducts, clean lint screens, and keep button and lint traps closed.

Department of Water Quality and Hazardous Materials Management Division of Public Health



FIELD SHEET

Name or Descrip	tion of Premises	Address
Commerce		3819 W. Michigan St.
Person Interview	ed Phone	Person Legally Reponsible Phone
Chuck	Andrew	Chuck Dodson
12/12/94 Date & Time	Inspected dry 6	learned fairlity with Paul cited and recheck set on
12:00	Colson. Violations	cule you recorded per
	Jan. 13, 1995.	
		,
	·	
	•	
		•
	c for proper filing	Check & Complete
child facility companies	schools solid waste; district	complaintproblem correctedunjustified complaint
cso groundwater lift_station	surface water; specify	order issuedreferred to: date
miscellaneous PIR; specify	swimming pools NPDES	samplereturn to:
revised 4/92	Dey Chares	Specialist Securio



3838 N. Rural St. Indianapolis, Indiana 46205 (317) 541-2270

December 14, 1994

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Observed Defects and Suggested Corrections

20-401/ 19-307

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19-307

No written hazardous energy program (lock-out / tag-out).

All machinery or equipment is required to be de-energized or disengaged and blocked or locked-out during cleaning, servicing, adjusting or setting up operations, whenever such work is required. Provide written instructions for all lock-out/tag-out procedures to your employees who use or service such machinery or equipment and document training of all affected and authorized personnel. Provide employees with individually keyed personal safety locks, and provide means to identify any or all employees who are working on locked-out equipment by their locks or accompanying tags. In the event that equipment or lines cannot be shut down, locked-out and tagged, ensure that a safe job procedure is established (written) and rigidly followed.

Chapter & Section **Observed Defects and Suggested Corrections** 9-307 No emergency action plan. Develop and implement an emergency action plan that includes escape procedures and routes employee accounting following an evacuation, rescue and medical duties, means of reporting emergencies, and persons to be contacted for information or clarification. The plan should address emergencies that the employer may reasonably expect in the workplace, including fires, chemical spills, tornadoes, blizzards, floods, and bomb threats. In addition to training, the emergency action plan should address fire prevention, including a list of all major work place hazards, proper handling and storage combustible material, potential ignition sources, and type of fire equipment or systems to control a fire involving them, the names or job titles responsible for maintenance of equipment and ignition prevention or control systems, persons responsible for control of fuel source hazards, as well as housekeeping procedures to control accumulations of flammable and combustible waste materials and residues. For employers with 10 employees or less, the emergency action plan does not need to be in writing, but it must be communicated orally to the employees. Employers with more than 10 employees must establish a written emergency action plan. 19-307 Perchloroethylene purchase receipts for last 12 months are not available. Keep all perchloroethylene purchase receipts on-site for at least 12 months. 19-307 Annual running total of perchloroethylene consumption not available. Calculate and record your annual running total of perchloroethylene consumption on the first working day of every month. For instance, on November 1, 1994, you should have added the number of gallons of perc you purchased between November 1, 1993 and November 1, 1994. If you have not kept track of your perc consumption, estimate it and note that it is estimated number. Written log of weekly or biweekly leak detection and repair program is not available. 19-307/ 20-401 Keep a written log of your weekly or biweekly leak detection and repair program on-site. 19-307/ Repairs to dry cleaning equipment or machines have not been made within 24 hours of detection, or parts have not been ordered within 2 days of detection and repairs made within 5 days of receipt of 20-401 those parts. All repairs to dry cleaning equipment or machines must be made within 24 hours of detection, or parts ordered within 2 days of detection and repairs made within 5 days of receipt of those parts. Keep a written log of all repairs, including the date of repair. 19-307/ Hazardous waste manifests for last the three years are not available. 20-401 Provide hazardous waste manifests for the last three years. 20-401 Containers of hazardous substances are not labeled properly. Label all containers of hazardous substances with the proper name and hazard warning. Retain the Department of Transportation labels and markings on all containers until the containers are sufficiently cleaned of residue. 19-307/ Spotters are not trained on the hazards of all the spotting solvents. 20-401 Train all spotters on the hazards of all the spotting solvents that they use. This should be a part of your written hazard communication program. 20-401 Accumulation dates are not recorded on containers of hazardous waste.

Record on all containers of hazardous waste the date when hazardous waste was first

placed in that container.

Chapter & Section	Observed Defects and Suggested Corrections
19-307	IOSHA workplace poster is not displayed in a prominent location where employees are likely to see it.
	Display IOSHA workplace poster in a prominent location where employees are likely to see it.
19-307	Doorways are not marked or labeled properly.
	Mark exit(s) with an exit sign(s) that is lit by a reliable light source. Mark all doors which could be mistaken for an exit with a sign indicating its purpose or "NOT AN EXIT."
19-307	Missing, inadequate or defective guard(s) on chain(s), belt(s), gear(s) or fan blade(s).
	Repair/replace all missing, defective or inadequate guards. All energized parts of equipment is to be guarded against contact by approved enclosures. All fan blades within 7 feet of the floor must be protected with a guard having openings no larger than 1/2 inch. All machinery guards must be secure and so arranged that they do not pose a hazard in their use.
19-404	Electric service equipment, outlets, fixtures, and wiring in poor repair as evidenced by missing enclosure covers (exposed wiring), missing cable clamps (where cables enter enclosures), or unprotected non-metallic sheathed cable.
	Employ a qualified electrician to repair all electric service equipment, outlets, fixtures, and wiring to a condition in accordance with the National Electrical Code.
19-404/307	Extension cords are used as permanent wiring.
	Discontinue use of extension cords as permanent wiring. Appropriately wire fixtures or appliances or provide properly wired outlets to fixtures or appliances in accordance with the National Electrical Code.
19-307	No exhaust fan in restroom.
19-307	Install exhaust fan in restroom. No hot water in restroom.
	Provide hot water in restroom.
19-307	No paper towels in restroom.
	Provide paper towels in restroom.

Corrective actions must be completed by January 16, 1995. Any person affected by this notice may request a hearing on this matter. Such a request must be made in writing and received in our Legal Department (located at 3838 N. Rural St., Indianapolis, IN 46205) within 10 business days of the receipt of this notice. Your compliance with this Notice of Violation does not release you from your responsibility to comply with other applicable local, state, and federal regulations, nor does it imply that you are in compliance with all local, state, and federal regulations.

A list of recommendations are attached to this notice. Although these are not requirements, we urge you to consider each recommendation. If you have any questions, please call me at 541-2270.

Sincerely,

Gregory L. Spears

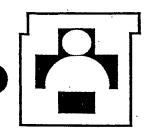
Environmental Health Specialist III Department of Water Quality and Hazardous Materials Management Bureau of Environmental Health

RECOMMENDATIONS

following are recommendations as part of our pollution prevention program. Although you are not required to implement any of these opportunities, we recommend you consider all of them. More detailed information is included in the information we sent to you during the inital mailing. If you have questions about any of these recommendations, please call me at 541-2270 for more information.

Track solvent mileage by dividing the total weight of garments cleaned per gallon of dry cleaning solvent consumed. An increase in solvent mileage indicates better efficiency. A decrease in solvent mileage may indicate a leak or other problems with your dry cleaning equipment.

Establish and maintain preventive maintenance schedule. Preventive maintenance can reduce the risk of spills, leaks, and down time, increase efficiency, and conserve resources. Regularly replace seals and gaskets, check air relief valves and exhaust ducts, clean lint screens, and keep button and lint traps closed.



Department of Water Quality and Hazardous Materials Management 3838 N. Rural Street Indianapolis, Indiana 46205 (317) 541-2266

December 23, 1994

Mr. Charles Dodson Accent Dry Cleaners 3819 W. Michigan Rd. Indianapolis, IN 46222

RE: Leak Detection and Repair Program

Dear Mr. Dodson:

Here is a leak detection and repair program that you may implement at your facility. Included are instructions/information, a sample log, and actual logs to use at your facility.

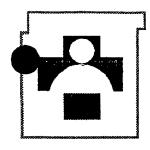
If you have any questions please contact me at 541-2266.

Sincerely,

Gregory L. Spears

Environmental Health Specialist Department of Water Quality and Hazardous Materials Management

BUREAU OF ENVIRONMENTAL HEALTH



3838 N. Rural St. Indianapolis, Indiana 46205 (317) 541-2270

July 14, 1995

Owner Charles Dodson 3819 W. Michigan Road Indianapolis, IN 46222

Dear Sir or Madam:

An inspection was made of ACCENT DRY CLEANERS located at 3819 W MICHIGAN ST on July 10, 1995 to verify compliance with the previously issued Notice of Violation. ACCENT DRY CLEANERS at 3819 W MICHIGAN ST is now in compliance with the Code of the Health and Hospital Corporation of Marion County. Your compliance with this Notice of Violation does not release you from your responsibility to comply with other applicable local, state, and federal regulations, nor does it imply that you are in compliance with all local, state, and federal regulations.

I appreciate your cooperation and your concern for public health, employee safety, and the environment. If you have any questions, please call me at 541-2270.

Sincerely,

Gregory L. Spears

Environmental Health Specialist III Department of Water Quality and Hazardous Materials Management Bureau of Environmental Health

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INFO

RECOMMENDATIONS

The following are recommendations as part of our pollution prevention program. Although you are not required to implement any of these opportunities, we recommend you consider all of them. More detailed information is included in the guidance documents that we sent to you during the initial mailing. If you have questions about any of these recommendations, please call me at 541-2270 for more information.

Store all perchloroethylene containers so that they can be easily inspected daily for leaks or deterioration.

Provide secondary containment around all containers of hazardous materials, including drums of perchloroethylene and dry cleaning machines. If this is not feasible, provide floor drain covers or other spill containment equipment and keep it readily available.

Develop a spill plan to reduce loss and contamination during chemical spills. Train employees how to minimize losses and contamination during spills. Provide spill containment equipment and floor drain covers.

Completely empy containers of hazardous materials before cleaing and disposal.

Store all hazardous waste containers so that they can be easily inspected daily for leaks or detenoration.

Provide secondary containment around containers of hazardous waste. If this is not feasible, provide floor drain covers or other spill containment equipment and keep it readily available.

Track solvent mileage by dividing the total weight of garments cleaned per gallon of dry cleaning solvent consumed. An increase in solvent mileage indicates better efficiency. A decrease in solvent mileage may indicate a leak or other problems with your dry cleaning equipment.

Establish and maintain preventive maintenance schedule. Preventive maintenance can reduce the risk of spills, leaks, and down time, increase efficiency, and conserve resources. Regularly replace seals and gaskets, check air relief valves and exhaust ducts, clean lint screens, and keep button and lint traps closed.

Increase the use of wet cleaning to reduce your perchloroethylene consumption. Approximately 30% of garments brought to dry cleaners can be wet cleaned, which means you can reduce your perchloroethylene consumption by 30% and reduce your waste disposal costs.

Keep all floors, machinery, aisles, and work areas clean and free of debris. Good housekeeping enables easier leak detection and minimizes contamination during spills.

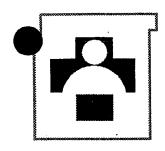
Implement a program for recycling hangers and garment bags. Contact you supplier for assistance.

Fetal	olishment: ACCENT DRY CLEANERS		אנו. טה רו/ו	/		
Addr	_				Reason: 🗖 Initial (I) 🗗 Rech	
	17.				Building: O Free Standing (F)	
JI.	State/Lip: <u>TNOPIS</u> . <u>TN. 46222</u> Imber: 8	Inenar	owner tor: So		Attached Comme	
	IRD COMMUNICATION PROGRAM	Wt.		IAPS REQUIREMENTS	Attached Residentia	
(đi)	Written program available	13	38	Perc purchase receipts for last 12	months available	Wt.
02	Contains an MSDS for all hazardous substances on-site	11	(39)	Annual running total of perc consum		
03	Contains a list of all hazardous substances on-site	1	40			oin Op
04	Indicates who is responsible for maintaining MSDSs	1	41	Source category: Small area		лиг Ор
05	Explains the proper labeling of containers	1	42	Facility type: New (on or after D		
06	Explains how to respond to non-routine tasks	1	43	Sent "Initial Notification Reporting		12
07	Documents training of employees (recommended only)	R		Cleaning Facilities" form to the EPA	or IDEM	
WRIT	TEN RESPIRATOR PROGRAM	w (co.co.	44	Sent "Compliance Report for Polluti		12
08	Personal air monitoring has been performed (required in plants with	4	45	Owners manuals for all dry cleaning		2
	transfer machines, recommended for all others		(46)	Written log of leak detection and re		3
09	Written respirator program available (required if exposed to > 100	3		for Existing Large Area Sources; biv	veekly for all others)	1
<u> </u>	ppm TWA or > 200 ppm STEL or if respirators are on-site)		. 47	All repairs made within 24 hours, or		13
10	Explains the proper usage and limitations of respirators	1		and repairs made within 5 days of re		
11	Requires medical surveillance	1	NEW	SMALL AREA AND NEW LARGE AF		
12	Requires the use of NIOSH-approved respirators	1	48	All new machines (manufactured af		5
13	Requires regular inspection and cleaning of respirators	1		loop, refrigerated dry-to-dry machine		
14	Respirators are stored properly and are in good condition	1	49	Records available of weekly measur	ements of the exhaust on the	3
	TEN EXPOSURE CONTROL PLAN			outlet side of all refrigerated conden	sers (must be ≤45° F)	丄
15	Written Exposure Control Plan available lequired if employees	3		ING LARGE AREA SOURCES		
10	handle laundry contaminated with bodily fluids)		50	Submitted "Compliance Report for C		
16	Includes a copy of the standard and explains its contents			(not required until 10/23/96, but mu they have submitted this report)	st camply with the following if	
-	Explains universal precautions	1	51	If using a refrigerated condenser on		
	Employees are trained on the symptoms of bloodborne diseases and	1	"	weekly measurements of the inlet a	a wasner, records available of	3
19	modes of transmission			refrigerated condenser (difference m	oust be at least 20°F)	
20	Explains the selection, use, location, handling and disposal of PPE		52	If using a refrigerated condenser on		13
21	Hepatitis B vaccination provided to employees free of charge			or dryer, records available of weekly	measurements of the exhaust	
22	Explains the procedure to follow if an exposure occurs	2		outlet temperature of all refrigerated	condensers (must be <45F)	1
22	Describes the signs, labels, and color coding of infectious waste containers	1	53	If using a carbon adsorber, records a		3
23	Decuments training of affected employees initially and annually	2		measurements of the concentration	of perc in the carbon adsorber	
	EN ENERGY CONTROL (LOCK-OUT/TAG-OUT) PROGRAM			exhaust. Must be taken using a dete	ector tube while the machine is	
<u>(4)</u>	Written lock-out/tag-out program available	3		venting to the carbon adsorber at the	e end of the last dry cleaning	
25	Requires stored energy to be released or blocked before equipment	1	HAZAG	cycle prior to desorption (must be \leq) RDOUS WASTE DISPOSAL	ии ррт)	
	is locked-out for repair		54	Generator status: CESQG (< 220) the 1	
26	Requires employees to check the lock-out by attempting a start	1	"		s / month, ≤2,200 lbs / month)	- 1
	after lockout			□ LQG (> 2,200		
27	Documents training of affected and authorized employees	-1		If CESQG, 55-58 are recommendation		1
28	Requires that employees can be identified by their locks and tags	1	55	EPA Identification number:		5
29	Provides authorized employees with tags individually keyed locks	1	6 6	Waste manifests for last three years	available	4
30	Requires authorized employees to keep possession of their individual	1	57	Licensed hazardous waste hauler use		5
	keys during a lock-out procedure		58	Contingency plan for waste-related e		3
31	ldentifies safe procedure for machines that cannot be locked-out or	1		contact (not required to be in writing		
	tagged-out		59	CESQG: recommend complying with	55-58	R
	ENCY ACTION PLAN Number of employees:		PERCH	LOROETHYLENE STORAGE AREA		<u> </u>
30	EAP available (oral if < 10 employees, written if ≥ 10 employees)	3	60	All perc containers labeled with prope		5
	Designates escape procedures and routes and employee accounting	1	61	All perc stored indoors in closed, non		5
<u> </u>	following an evacuation		6.2	All pero containers stored in a manne		R
34	Describes means of reporting emergencies and lists emergency	1	63	Secondary containment or floor drain		R
35	phone numbers		84	Spill plan in place to reduce loss and		R
36	Describes rescue and medical duties of employees	1	65	Perc transferred using spigots or pun	nps from properly vented	R
ا "	Addresses fires, chemical spills, tornadoes, blizzards, floods, and bomb threats	1		containers directly to machines		
37	All employees trained at least once (documentation not required)	-	66	Containers emptied completely befor		B
1		1	16781	Volume of nore ethiod on eita is bant	to a minimum.	100 mm

68	All containers are labeled with proper name and hazard warning	5
(69)	All spotters are trained on the hazards of all spotting solvents	3
	RDOUS WASTE STORAGE AREA	Wi
5	All waste stored in a secure location in sealed, leak-proof containers	5
	All containers labeled "Hazardous Waste" or with similar words	5
72)	Accumulation dates recorded on all hazardous waste containers	4
73	Small Quantity Generators: accumulate waste for ≤180 days	3
74	All containers stored in a manner to allow easy daily aspection	R
75	Secondary containment or floor drain covers provided	R
RY C	EANING EQUIPMENT	
76	Dry cleaning machine(s) and equipment is free of leaks	5
77	Machine doors are kept closed except when loading and unloading	3
78	Cartridge filters are drained in their housings or a sealed container for at least 24 hours	4
79	Solvent mileage tracked (pounds of garments per gallon of perc)	R
80	Preventive maintenance program in place	R
81	Dry:cleaning equipment efficiency is optimized	R
82	Wet cleaning used whenever possible	R
83	Transfer machines are being replaced	R
84	Recovering solvent vapors using carbon adsorbers or refrigerated condensers	R
85	Recover waste solvent using a still or muck cooker	R
	ht (Wt): 5-Most serious, correct these defects immediately; 3-Medium y; 1-Lower priority, correct these defects after all others are corrected	l

	RAL WORK AREA	W
86	Exhaust fan installed and operational in restroom(s)	3
(87)	Paper towels provided in restroom(s)	4
(88)	Hot water available in restroom(s)	4
89	Connected to the sanitary sewer	5
(904)	IDSHA workplace poster displayed where all employees will see it	3
<u>(91)</u>	"Exit" signs posted and illuminated; "Not an Exit" signs posted	2
92	Aisles are clear for egress purposes	4
93)	All moving chains, belts, gears, and fan blades within 7 feet of the working level are properly guarded	4
94	Steam pipes are insulated or labeled properly	4
95	Fire extinguishers mounted properly, serviced annually and marked accordingly	3
96	Work areas are clean and well lit	2
97	Good housekeeping is employed to allow easier detection of leaks. and prevent additional contamination during spills	R
98	Recycling program in place for hangers and garment bags	R
LECT	RICAL	13888
99	Switches, receptacles, fittings, and junction boxes covered properly	3
[00]	Extension cords are not used as permanent wiring	3
101	All receptacles are grounded or appliance wiring is double insulated	3
102	All appliance cords are grounded cords or double insulated	3
103	All wiring is in good condition, including no fraying or deterioration	3
104	Flexible cords and cables are free of splices and taps	3 .
105	Circuit breakers and disconnecting switches labeled	3

have questions, pleas	e call 541-2270 be	tween 7:30 am and	5:00 pm a	ıd ask for you	ır inspector.	Date:	ID:
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3838 N. Rural St. Indianapolis, Indiana 46205 (317) 541-2270

February 13, 1995

Certified Mail:

Owner Charles Dodson 3819 W. Michigan Road Indianapolis, IN 46222

DENA

Dear Sir or Madam:

Upon reinspection on January 17, 1995 of ACCENT DRY CLEANERS located at 3819 W MICHIGAN ST it was determined that complete compliance with the initial Notice of Violation has not been attained. Therefore, an extension of time has been granted until March 03, 1995 to comply with the initial Notice of Violation. Further extensions may not be granted if significant progress has not been made by March 03, 1995. Defects remaining to be corrected are:

Chapter & Section

Observed Defects and Suggested Corrections





Establish a written hazard communication program that includes Material Safety Data Sheets for all the hazardous substances on-site, a list of those hazardous substances, a description of the proper labeling of containers, provisions for employee training on hazardous substances, and a list of non-routine tasks that involve hazardous substances. The sample hazard communication program that we previously sent to you can be used as a guide, but your plan must be specific for your plant.



No written hazardous energy control program (lock-out / tag-out).

All machinery or equipment is required to be de-energized or disengaged and blocked or locked-out during cleaning, servicing, adjusting or setting up operations, whenever such work is required. Provide written instructions for all lock-out/tag-out procedures to your employees who use or service such machinery or equipment and document training of all affected and authorized personnel. Provide employees with individually keyed personal safety locks, and provide means to identify any or all employees who are working on locked-out equipment by their locks or accompanying tags. In the event that equipment or lines cannot be shut down, locked-out and tagged, ensure that a safe job procedure is established (written) and rigidly followed.

Chapter & Section 9-307

Observed Defects and Suggested Corrections

No emergency action plan.

Develop and implement an emergency action plan that includes escape procedures and routes employee accounting following an evacuation, rescue and medical duties, means of reporting emergencies, and persons to be contacted for information or clarification. The plan should address emergencies that the employer may reasonably expect in the workplace, including fires, chemical spills, tornadoes, blizzards, floods, and bomb threats.

In addition to training, the emergency action plan should address fire prevention, including a list of allmajor work place hazards, proper handling and storage combustible material, potential ignition sources, and type of fire equipment or systems to control a fire involving them, the names or job titles responsible for maintenance of equipment and ignition prevention or control systems, persons responsible for control of fuel source hazards, as well as housekeeping procedures to control accumulations of flammable and combustible waste materials and residues.

For employers with 10 employees or less, the emergency action plan does not need to be in writing, but it must be communicated orally to the employees. Employers with more than 10 employees must establish a written emergency action plan.

9-307

Annual running total of perchloroethylene consumption not available.

Calculate and record your annual running total of perchloroethylene consumption on the first working day of every month. For instance, on November 1, 1994, you should have added the number of gallons of perc you purchased between November 1, 1993 and November 1, 1994. If you have not kept track of your perc consumption, estimate it and note that it is estimated number.



Whiten log of weekly or biweekly leak detection and repair program is not available.

Keep a written log of your weekly or biweekly leak detection and repair program on-site.

Provide hazardous waste manifests for the last three years are not available. He only has manifest for period of time that he has owned the facility.

Spotters are not trained earthe hazards of all the spotting selvents.

Train all spotters on the hazards of all the spotting solvents that they use. This should be a part of your written hazard communication program.

Aeounnulation dates are not recorded on containers of hazardous waste.

Record on all containers of hazardous waste the date when hazardous waste was first placed in that container.

Restroom(s) does not have paper towers.

Provide paper towels in restroom(s).

Hotwateris not available in restroom(s).

Provide hot water in restroom(s). The temperature of the water should not excede 120 degrees Farenheit.



IOSHA workplace poster is not displayed in a prominent location where employees are likely to see it.

Display IOSHA workplace poster in a prominent location where employees are likely to see it. To receive a free Job Safety and Health Protection Poster call the Bureau of Safety Education and Training at 232-6942.

Chapter & Section

Observed Defects and Suggested Corrections

19-307

Doorways are not marked or labeled properly. LAND LORD

Mark exit(s) with an exit sign(s) that is lit by a reliable light source. Mark all doors which could be mistaken for an exit with a sign indicating its purpose or "NOT AN EXIT."



Missing, inadequate or defective guard(s) on chain(s), belt(s), gear(s) or fan blade(s).

Repair/replace all missing, defective or inadequate guards. All energized parts of equipment is to be guarded against contact by approved enclosures. All fan blades within 7 feet of the floor must be protected with a guard having openings no larger than 1/2 inch. All machinery guards must be secure and so arranged that they do not pose a hazard in their use.

19-404/307

Extension cords are used as permanent wiring.

Discontinue use of extension cords as permanent wiring. Appropriately wire fixtures or appliances or provide properly wired outlets to fixtures or appliances in accordance with the National Electrical Code.

Corrective actions must be completed by March 03, 1995. If you have any questions, please call me at 541-2270.

Sincerely,

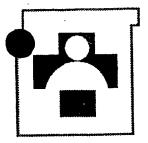
Gregory L. Spears
Environmental Health Specialist III
Pepartment of Water Quality and
lazardous Materials Management
Bureau of Environmental Health

Establ	ishment: ACCENT DRY CLEAUERS	Date:	3/6/9	S Reason: Dinitial (I) Preched	L IRI
Addre		_		Building: O Free Standing (F)	sk (n)
c: US			OWNE		ial (C)
		Inspect		PEARS Attached Residential	
HAZAI	RD COMMUNICATION PROGRAM	Wt.		APS REQUIREMENTS	Wt.
01	Written program available	3	38	Perc purchase receipts for last 12 months available	4
02	Contains an MSDS for all hazardous substances on-site	1	(39)	Annual running total of perc consumption calculated: gal/yr	3
03	Contains a list of all hazardous substances on-site	111	40	# of dry cleaning machines: Dry to dry Transfer Coin	1 Op
04	Indicates who is responsible for maintaining MSDSs	1	41	Source category: Small area Large area Major	<u>-</u>
05	Explains the proper labeling of containers	1	42	Facility type: \(\text{\text{New (on or after Dec 9, 1991)}}\) \(\text{\text{Existing}}\)	
06	Explains how to respond to non-routine tasks	11	43	Sent "Initial Notification Reporting Requirements for Perc Dry	12
07	Documents training of employees (recommended only)	R		Cleaning Facilities" form to the EPA or IDEM	
WRITT	EN RESPIRATOR PROGRAM		44	Sent "Compliance Report for Pollution Prevention" to EPA or IDEM	2
08	Personal air monitoring has been performed (required in plants with	4	45	Owners manuals for all dry cleaning equipment available	2
	transfer machines, recommended for all others)		46	Written log of leak detection and repair program available (weekly	3
09	Written respirator program available (required if exposed to > 100	3		for Existing Large Area Sources; biweekly for all others)	
-	ppm TWA or > 200 ppm STEL or if respirators are on-site)	1_1	47	All repairs made within 24 hours, or parts ordered within 2 days	3
10	Explains the proper usage and limitations of respirators	11		and repairs made within 5 days of receipt of the parts	
11	Requires medical surveillance	11		SMALL AREA AND NEW LARGE AREA SOURCES	,,
12	Requires the use of NIOSH-approved respirators	1	48	All new machines (manufactured after Dec 9, 1991) are closed-	5
.13	Requires regular inspection and cleaning of respirators		10	loop, refrigerated dry-to-dry machines	
14	Respirators are stored properly and are in good condition		49	Records available of weekly measurements of the exhaust on the outlet side of all refrigerated condensers (must be $\leq 45^{\circ}$ F)	3
	EN EXPOSURE CONTROL PLAN	127	FYISTI	NG LARGE AREA SOURCES	Щ
15	Written Exposure Control Plan available (required if employees	3	50 T	Submitted "Compliance Report for Control Requirements" to EPA	
16	handle laundry cantaminated with bodily fluids) Includes a copy of the standard and explains its contents	+	"	(not required until 10/23/96, but must comply with the following if	ı
10		\square		they have submitted this report)	
	Explains universal precautions	++1	51	If using a refrigerated condenser on a washer, records available of	3
	Employees are trained on the symptoms of bloodborne diseases and modes of transmission	1 ' 1		weekly measurements of the inlet and outlet side of the	
19	Explains the selection, use, location, handling and disposal of PPE	+-		refrigerated condenser (difference must be at least 20°F)	
20	Hepatitis B vaccination provided to employees free of charge	++	52	If using a refrigerated condenser on a dry-to-dry machine, reclaimer,	3
21	Explains the procedure to follow if an exposure occurs	2		or dryer, records available of weekly measurements of the exhaust	1
22	Describes the signs, labels, and color coding of infectious waste	1	F0	outlet temperature of all refrigerated condensers (must be <45°F)	
	containers		53	If using a carbon adsorber, records available of weekly	3
23	Documents training of affected employees initially and annually	2		measurements of the concentration of perc in the carbon adsorber exhaust. Must be taken using a detector tube while the machine is	
VRITT	EN ENERGY CONTROL (LOCK-OUT/TAG-OUT) PROGRAM		1 1	venting to the carbon adsorber at the end of the last dry cleaning	
24)	Written lock-out/tag-out program available	3		cycle prior to description (must be ≤100 ppm)	
25	Requires stored energy to be released or blocked before equipment	1	HAZAR	DOUS WASTE DISPOSAL	
	is locked-out for repair		54	Generator status: ☐ CESQG (<220 lbs / month)	
26	Requires employees to check the lock-out by attempting a start	1		□ SQG (≥220 lbs / month, ≤2,200 lbs / month)	
	after lockout			\square LQG (>2,200 lbs / menth)	1
27	Documents training of affected and authorized employees	1		If CESOG, 55-58 are recommendations only	
28	Requires that employees can be identified by their locks and tags	1	55	EPA Identification number:	5
29	Provides authorized employees with tags individually keyed locks	1	56	Waste manifests for last three years available	4
30	Requires authorized employees to keep possession of their individual	1	57	Licensed hazardous waste hauler used to transport waste	5
	keys during a lock-out procedure	Ш	58	Contingency plan for waste-related emergencies, including 24 hour	3
31	Identifies safe procedure for machines that cannot be locked out or	1	Sourcine Social	contact (not required to be in writing for CESQG or SQG)	
. NEDC	tagged-out	Ш	***************************************		Я
	ENCY ACTION PLAN Number of employees: 2			LOROETHYLENE STORAGE AREA	-
32)	EAP available (<i>Gral if</i> < 10 employees) written if >10 employees) Designates escape procedures and routes and employee accounting	3	60	All perc containers labeled with proper name and hazard warning All perc stored indoors in closed, non-leaking containers	5
	following an evacuation	1			
34	Describes means of reporting emergencies and lists emergency		63	All perc containers stored in a manner to allow easy daily inspection.	R
Ť,	phone numbers		200000000	Secondary containment or floor drain covers provided	R
35	Describes rescue and medical duties of employees	-	64 65	Spill plan in place to reduce loss and contemination during perc spills Perc transferred using spigots or pumps from properly vented.	R
36	Addresses fires, chemical spills, tornadoes, blizzards, floods, and			rare transferred using species or pumps from properly vented: containers directly to machines	R
j	bomb threats			Containers emptied completely before cleaning or disposal.	R
37	All employees trained at least once (documentation not required)	1		Volume of perc stored on site is kept to a minimum	B
			POSTURES \$1	AND THE PERSON OF THE PERSON O	CW///

SPOTT	ING AREAS	
68	All containers are labeled with proper name and hazard warning	5
69	All spotters are trained on the hazards of all spotting solvents	3
HAZAH	DOUS WASTE STORAGE AREA	Wt.
	All waste stored in a secure location in sealed, leak-proof containers	5
71	All containers labeled "Hazardous Waste" or with similar words	5
72	Accumulation dates recorded on all hazardous waste containers	4
73	Small Quantity Generators: accumulate waste for ≤180 days	3
74	All containers stored in a manner to allow easy daily inspection	R
75	Secondary containment or floor drain covers provided	Ħ
DRY C	EANING EQUIPMENT	
76	Dry cleaning machine(s) and equipment is free of leaks	5
77	Machine doors are kept closed except when loading and unloading	3
78	Cartridge filters are drained in their housings or a sealed container	4
	for at least 24 hours	
79	Solvent mileage tracked (pounds of garments per gallon of perc)	R
80	Preventive maintenance program in place	R
81	Dry cleaning equipment efficiency is optimized	R
82	Wet cleaning used whenever possible	R
83	Transfer machines are being replaced	R
84	Recovering solvent vapors using carbon adsorbers or refrigerated condensers	R
85	Recover waste solvent using a still or muck cooker	R
	ht (Wt): 5-Most serious, correct these defects immediately; 3-Mediur ty; 1-Lower priority, correct these defects after all others are corrected	

GENER	AL WORK AREA	Wt.
86	Exhaust fan installed and operational in restroom(s)	3
87	Paper towels provided in restroom(s)	4
88	Hot water available in restroom(s)	4
89	Connected to the sanitary sewer	5
90	IOSHA workplace poster displayed where all employees will see it	3
91)	"Exit" signs posted and illuminated; "Not an Exit" signs posted	2
92	Aisles are clear for egress purposes	4
93	All moving chains, belts, gears, and fan blades within 7 feet of the working level are properly guarded	4
94	Steam pipes are insulated or labeled properly	4
95	Fire extinguishers mounted properly, serviced annually and marked accordingly	3
96	Work areas are clean and well lit	2
97	Good housekeeping is employed to allow easier detection of leaks and prevent additional contamination during spills	R
98	Recycling program in place for hangers and garment bags	R
ELECT	RICAL	
99	Switches, receptacles, fittings, and junction boxes covered properly	3
(00)	Extension cords are not used as permanent wiring	3
101	All receptacles are grounded or appliance wiring is double insulated	3
102	All appliance cords are grounded cords or double insulated	3
103	All wiring is in good condition, including no fraying or deterioration	3
104	Flexible cords and cables are free of splices and taps	3
105	Circuit breakers and disconnecting switches labeled	3

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ou have questions, pl	ease call 541-2270) between 7:30 a	m and 5:00 pi	n and ask for y	our inspector.	Date:		ID:
								AIM0012



3838 N. Rural St. Indianapolis, Indiana 46205 (317) 541-2270

March 09, 1995

Certified Mail:

Owner Charles Dodson 3819 W. Michigan Road Indianapolis, IN 46222

Dear Sir or Madam:

Upon reinspection on March 06, 1995 of ACCENT DRY CLEANERS located at 3819 W MICHIGAN ST it was determined that complete compliance with the initial Notice of Violation has not been attained. Therefore, an extension of time has been granted until April 11, 1995 to comply with the initial Notice of Violation. Further extensions may not be granted if significant progress has not been made by April 11, 1995. Defects remaining to be corrected are:

Chapter & Section

Observed Defects and Suggested Corrections

19-307

No written hazardous energy control program (lock-out / tag-out).

All machinery or equipment is required to be de-energized or disengaged and blocked or locked-out during cleaning, servicing, adjusting or setting up operations, whenever such work is required. Provide written instructions for all lock-out/tag-out procedures to your employees who use or service such machinery or equipment and document training of all affected and authorized personnel. Provide employees with individually keyed personal safety locks, and provide means to identify any or all employees who are working on locked-out equipment by their locks or accompanying tags. In the event that equipment or lines cannot be shut down, locked-out and tagged, ensure that a safe job procedure is established (written) and rigidly followed.

19-307

No emergency action plan.

Develop and implement an emergency action plan that includes escape procedures and routes employee accounting following an evacuation, rescue and medical duties, means of reporting emergencies, and persons to be contacted for information or clarification. The plan should address emergencies that the employer may reasonably expect in the workplace, including fires, chemical spills, tornadoes, blizzards, floods, and bomb threats.

In addition to training, the emergency action plan should address fire prevention, including a list of all major work place hazards, proper handling and storage combustible material, potential ignition sources, and type of fire equipment or systems to control a fire involving them, the names or job titles responsible for maintenance of equipment and ignition prevention or control systems, persons responsible for control of fuel source hazards, as well as housekeeping procedures to control accumulations of flammable and combustible waste materials and residues.

For employers with 10 employees or less, the emergency action plan does not need to be in writing, but it must be communicated orally to the employees. Employers with more than 10 employees must establish a written emergency action plan.

Chapter & Section

Observed Defects and Suggested Corrections

307

Annual running total of perchloroethylene consumption not available.

Calculate and record your annual running total of perchloroethylene consumption on the first working day of every month. For instance, on November 1, 1994, you should have added the number of gallons of perc you purchased between November 1, 1993 and November 1, 1994. If you have not kept track of your perc consumption, estimate it and note that it is estimated number.

19-307

IOSHA workplace poster is not displayed in a prominent location where employees are likely to see it.

Display IOSHA workplace poster in a prominent location where employees are likely to see it. To receive a free Job Safety and Health Protection Poster call the Bureau of Safety Education and Training at 232-6942.

19-307

Doorways are not marked or labeled properly.

Mark exit(s) with an exit sign(s) that is lit by a reliable light source. Mark all doors which could be mistaken for an exit with a sign indicating its purpose or "NOT AN EXIT."

19-404/307

Extension cords are used as permanent wiring.

Discontinue use of extension cords as permanent wiring. Appropriately wire fixtures or appliances or provide properly wired outlets to fixtures or appliances in accordance with the National Electrical Code.

Corrective actions must be completed by April 11, 1995. If you have any questions, please call me at 541-2270.

Sincerely,

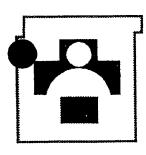
Gregory L. Spears

Environmental Health Specialist III
Department of Water Quality and
Hazardous Materials Management
Bureau of Environmental Health

RECOMMENDATIONS

The following are recommendations as part of our pollution prevention program. Although you are not required to implement any of these opportunities, we recommend you consider all of them. More detailed information is included in the guidance documents that we sent to you during the initial mailing. If you have questions about any of these recommendations, please call me at 541-2270 for more information.





3838 N. Rural St. Indianapolis, Indiana 46205 (317) 541-2270

March 09, 1995

Certified Mail:

Owner Charles Dodson 3819 W. Michigan Road Indianapolis, IN 46222

Dear Sir or Madam:

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Chapter & Section 19-307

Observed Defects and Suggested Corrections

No written hazardous energy control program (lock-out / tag-out).

All machinery or equipment is required to be de-energized or disengaged and blocked or locked-out during cleaning, servicing, adjusting or setting up operations, whenever such work is required. Provide written instructions for all lock-out/tag-out procedures to your employees who use or service such machinery or equipment and document training of all affected and authorized personnel. Provide employees with individually keyed personal safety locks, and provide means to identify any or all employees who are working on locked-out equipment by their locks or accompanying tags. In the event that equipment or lines cannot be shut down, locked-out and tagged, ensure that a safe job procedure is established (written) and rigidly followed.

19-307

No emergency action plan.

Develop and implement an emergency action plan that includes escape procedures and routes employee accounting following an evacuation, rescue and medical duties, means of reporting emergencies, and persons to be contacted for information or clarification. The plan should address emergencies that the employer may reasonably expect in the workplace, including fires, chemical spills, tomadoes, blizzards, floods, and bomb threats.

In addition to training, the emergency action plan should address fire prevention, including a list of all major work place hazards, proper handling and storage combustible material, potential ignition sources, and type of fire equipment or systems to control a fire involving them, the names or job titles responsible for maintenance of equipment and ignition prevention or control systems, persons responsible for control of fuel source hazards, as well as housekeeping procedures to control accumulations of flammable and combustible waste materials and residues.

For employers with 10 employees or less, the emergency action plan does not need to be in writing, but it must be communicated orally to the employees. Employers with more than 10 employees must establish a written emergency action plan.

Chapter & Section

Observed Defects and Suggested Corrections



Annual running total of perchloroethylene consumption not available.

Calculate and record your annual running total of perchloroethylene consumption on the first working day of every month. For instance, on November 1, 1994, you should have added the number of gallons of perc you purchased between November 1, 1993 and November 1, 1994. If you have not kept track of your perc consumption, estimate it and note that it is estimated number.

19301 K IOSHA workplace poster is not displayed in a prominent location where employees are likely to see it.

Display IOSHA workplace poster in a prominent location where employees are likely to see it. To receive a free Job Safety and Health Protection Poster call the Bureau of Safety Education and Training at 232-6942.

de 19007

Doorways are not marked or labeled properly.

Mark exit(s) with an exit sign(s) that is lit by a reliable light source. Mark all doors which could be mistaken for an exit with a sign indicating its purpose or "NOT AN EXIT."

19-404/307

Extension cords are used as permanent wiring.

Discontinue use of extension cords as permanent wiring. Appropriately wire fixtures or appliances or provide properly wired outlets to fixtures or appliances in accordance with the National Electrical Code.

Corrective actions must be completed by April 11, 1995. If you have any questions, please call me at 541-2270.

Sincerely,

Gregory L. Spears

Environmental Health Specialist III Department of Water Quality and Hazardous Materials Management Bureau of Environmental Health

RECOMMENDATIONS

The following are recommendations as part of our pollution prevention program. Although you are not required to implement any of these opportunities, we recommend you consider all of them. More detailed information is included in the guidance documents that we sent to you during the initial mailing. If you have questions about any of these recommendations, please call me at 541-2270 for more information.

MARION COUNTY HEALTH DEPARTMENT: DRY CLEANER INSPECTION CHECKLIST Date: 4/18/95 Uate: 4/18/95 Contact: CHARLET Bodson Establishment: ACCENT DRY CLEANERS Reason: Initial (I) Recheck (R) Address: 3819 W. MICHIGAN Rd. Building: Free Standing (F) Attached Commercial (C) Title: TEUNER State/Zip: INOPLS, IN. 46222 ☐ Attached Residential (R) Inspector: SPEARS ישווישור שו **NESHAPS REQUIREMENTS** Wt. Wt. **HAZARD COMMUNICATION PROGRAM** Perc purchase receipts for last 12 months available 3 4 Written program available 3 1 Annual running total of perc consumption calculated: gal/yr Contains an MSDS for all hazardous substances on-site 02 # of dry cleaning machines: Dry to dry Transfer Coin Op 1 40 03 Contains a list of all hazardous substances on-site Source category: Small area Large area ☐ Major Indicates who is responsible for maintaining MSDSs 1 41 04 Facility type: New (on or after Dec 9, 1991) Existing Explains the proper labeling of containers 1 42 05 1 Sent "Initial Notification Reporting Requirements for Perc Dry 2 43 06 Explains how to respond to non-routine tasks Cleaning Facilities" form to the EPA or IDEM R Documents training of employees (recommended only) 07 Sent "Compliance Report for Pollution Prevention" to EPA or IDEM 2 44 WRITTEN RESPIRATOR PROGRAM Personal air monitoring has been performed Vequired in plants with 2 45 Owners manuals for all dry cleaning equipment available 4 08 Written log of leak detection and repair program available (weekly transfer machines, recommended for all others) 46 3 Written respirator program available (required if exposed to > 100 3 for Existing Large Area Sources; biweekly for all others) 09 ppm TWA or > 200 ppm STEL or if respirators are on-site) 47 All repairs made within 24 hours, or parts ordered within 2 days 3 1 and repairs made within 5 days of receipt of the parts Explains the proper usage and limitations of respirators 10 SMALL AREA AND NEW LARGE AREA SOURCES ī 11 Requires medical surveillance All new machines (manufactured after Dec 9, 1991) are closed-5 1 12 Requires the use of NIOSH-approved respirators loop, refrigerated dry-to-dry machines 1 Requires regular inspection and cleaning of respirators 13 3 49 Records available of weekly measurements of the exhaust on the Respirators are stored properly and are in good condition 1 14 outlet side of all refrigerated condensers (must be <45° F) WRITTEN EXPOSURE CONTROL PLAN **EXISTING LARGE AREA SOURCES** 3 Written Exposure Control Plan available (required if employees Submitted "Compliance Report for Control Requirements" to EPA handle laundry contaminated with bodily fluids) (not required until 10/23/96, but must comply with the following if 1 includes a copy of the standard and explains its contents they have submitted this report) ī **Explains universal precautions** If using a refrigerated condenser on a washer, records available of 3 51 1 Employees are trained on the symptoms of bloodborne diseases and 18 weekly measurements of the inlet and outlet side of the modes of transmission refrigerated condenser (difference must be at least 20°F) Explains the selection, use, location, handling and disposal of PPE 1 19 If using a refrigerated condenser on a dry-to-dry machine, reclaimer, 3 52 1 Hepatitis B vaccination provided to employees free of charge 20 or dryer, records available of weekly measurements of the exhaust Explains the procedure to follow if an exposure occurs 2 21 outlet temperature of all refrigerated condensers (must be ≤45F) Describes the signs, labels, and color coding of infectious waste 1 If using a carbon adsorber, records available of weekly 22 3 53 measurements of the concentration of perc in the carbon adsorber containers 2 Documents training of affected employees initially and annually exhaust. Must be taken using a detector tube while the machine is 23 WRITTEN ENERGY CONTROL (LOCK-OUT/TAG-OUT) PROGRAM venting to the carbon adsorber at the end of the last dry cleaning 3 cycle prior to descrption (must be ≤100 ppm) Written lock-out/tag-out program available 24 HAZARDOUS WASTE DISPOSAL 1 Requires stored energy to be released or blocked before equipment 25 Generator status: CI CESCIG (<220 lbs / month) is locked out for repair □ SQG (≥220 lbs / month, ≤2,200 lbs / month) 1 Requires employees to check the lock-out by attempting a start 26 □ LQG (> 2,200 lbs / month) If CESQG, 55-58 are recommendations only Documents training of affected and authorized employees 1 27 5 55 **FPA** Identification number: Requires that employees can be identified by their locks and tags 1 28 4 Waste manifests for last three years available Provides authorized employees with tags individually keyed locks 56 1 29 5 57 Licensed hazardous waste hauler used to transport waste Requires authorized employees to keep possession of their individual 1 30 Contingency plan for waste-related emergencies, including 24 hour 3 58 keys during a lock-out procedure contact (not required to be in writing for CESQG or SQG) Identifies safe procedure for machines that cannot be locked-out or 1 31 CESQG: recommend complying with 55:58 R tagged-out PERCHLOROETHYLENE STORAGE AREA **EMERGENCY ACTION PLAN** Number of employees: All perc containers labeled with proper name and hazard warning 5 EAP available (oral if < 10 employees, written if ≥ 10 employees) 60 3 5 61 All perc stored indoors in closed, non-leaking containers Designates escape procedures and routes and employee accounting R All perc containers stored in a manner to allow easy daily inspection 62 following an evacuation Describes means of reporting emergencies and lists emergency 63 Secondary containment or floor drain covers provided R 34 Spill plan in place to reduce loss and contamination during perc spills R phone numbers 64

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Describes rescue and medical duties of employees

Addresses fires, chemical spills, tornadoes, blizzards, floods, and

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bomb threats

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Perc transferred using spigots or pumps from properly vented

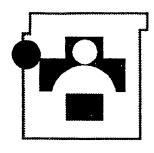
Containers emptied completely before cleaning or disposal

containers directly to machines

,, ,,	ING AREAS	Wt.
68	All containers are labeled with proper name and hazard warning	5
69	All spotters are trained on the hazards of all spotting solvents	3
Ą	RDOUS WASTE STORAGE AREA	
	All waste stored in a secure location in sealed, leak-proof containers	5
71	All containers labeled "Hazardous Waste" or with similar words	5
72	Accumulation dates recorded on all hazardous waste containers	4
73	Small Quantity Generators: accumulate waste for ≤180 days	3
74	All containers stored in a manner to allow easy daily inspection	R
75	Secondary containment or floor drain covers provided	A
RY C	LEANING EQUIPMENT .	
76	Dry cleaning machine(s) and equipment is free of leaks	5
77	Machine doors are kept closed except when loading and unloading	3
78	Cartridge filters are drained in their housings or a sealed container	4
	for at least 24 hours	
79	Solvent mileage tracked (pounds of garments per gallon of perc)	R
80	Preventive maintenance program in place	R
81	Dry cleaning equipment efficiency is optimized	R
82	Wet cleaning used whenever possible	R
83	Transfer machines are being replaced	R
84	Recovering solvent vapors using carbon adsorbers or refrigerated	R
	condensers	
85	Recover waste solvent using a still or muck cooker	R

GENER	AL WORK AREA	Wt.
86	Exhaust fan installed and operational in restroom(s)	3
87	Paper towels provided in restroom(s)	4
88	Hot water available in restroom(s)	4
89	Connected to the sanitary sewer	5
90	IOSHA workplace poster displayed where all employees will see it	3
91	"Exit" signs posted and illuminated; "Not an Exit" signs posted	2
92	Aisles are clear for egress purposes	4
93	All moving chains, belts, gears, and fan blades within 7 feet of the working level are properly guarded	4
94	Steam pipes are insulated or labeled properly	4
95	Fire extinguishers mounted properly, serviced annually and marked accordingly	3
96	Work areas are clean and well lit	2
97	Good housekeeping is employed to allow easier detection of leaks and prevent additional contamination during spalls	R
98	Recycling program in place for hangers and garment bags	R
LECT	RICAL	
99	Switches, receptacles, fittings, and junction boxes covered properly	3
(100)	Extension cords are not used as permanent wiring	3
101	All receptacles are grounded or appliance wiring is double insulated	3
102	All appliance cords are grounded cords or double insulated	3
103	All wiring is in good condition, including no fraying or deterioration	3
104	Flexible cords and cables are free of splices and taps	3
105	Circuit breakers and disconnecting switches labeled	3

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Marion County Health Department

3838 N. Rural St. Indianapolis, Indiana 46205 (317) 541-2270

April 19, 1995

Owner Charles Dodson 3819 W. Michigan Road Indianapolis IN 46222

Dear Sir or Madam:

Upon reinspection on April 18, 1995 of ACCENT DRY CLEANERS located at 3819 W MICHIGAN ST it was determined that complete compliance with the initial Notice of Violation has not been attained. Therefore, an extension of time has been granted until May 22, 1995 to comply with the initial Notice of Violation. Further extensions may not be granted if significant progress has not been made by May 22, 1995. Defects remaining to be corrected are:

Chapter & Section

Observed Defects and Suggested Corrections

19-307

No written hazardous energy control program (lock-out / tag-out).



All machinery or equipment is required to be de-energized or disengaged and blocked or locked-out during cleaning, servicing, adjusting or setting up operations, whenever such work is required. Provide written instructions for all lock-out/tag-out procedures to your employees who use or service such machinery or equipment and document training of all affected and authorized personnel. Provide employees with individually keyed personal safety locks, and provide means to identify any or all employees who are working on locked-out equipment by their locks or accompanying tags. In the event that equipment or lines cannot be shut down, locked-out and tagged, ensure that a safe job procedure is established (written) and rigidly followed.



No emergency action plan.

Develop and implement an emergency action plan that includes escape procedures and routes employee accounting following an evacuation, rescue and medical duties, means of reporting emergencies, and persons to be contacted for information or clarification. The plan should address emergencies that the employer may reasonably expect in the workplace, including fires, chemical spills, tornadoes, blizzards, floods, and bomb threats.

In addition to training, the emergency action plan should address fire prevention, including a list of all major work place hazards, proper handling and storage combustible material, potential ignition sources, and type of fire equipment or systems to control a fire involving them, the names or job titles responsible for maintenance of equipment and ignition prevention or control systems, persons responsible for control of fuel source hazards, as well as housekeeping procedures to control accumulations of flammable and combustible waste materials and residues.

For employers with 10 employees or less, the emergency action plan does not need to be in writing, but it must be communicated orally to the employees. Employers with more than 10 employees must establish a written emergency action plan.

Chapter & Section

Observed Defects and Suggested Corrections

Annual running total of perchloroethylene consumption not available.

Calculate and record your annual running total of perchloroethylene consumption on the first working day of every month. For instance, on November 1, 1994, you should have added the number of gallons of perc you purchased between November 1, 1993 and November 1, 1994. If you have not kept track of your perc consumption, estimate it and note that it is estimated number.

NEGRAGABOT

Extension cords are used as permanent wiring.

Discontinue use of extension cords as permanent wiring. Appropriately wire fixtures or appliances or provide properly wired outlets to fixtures or appliances in accordance with the National Electrical Code.

Corrective actions must be completed by May 22, 1995. If you have any questions, please call me at 541-2270.

Sincerely,

Gregory L. Spears

Environmental Health Specialist III Department of Water Quality and Hazardous Materials Management Bureau of Environmental Health

Recommendations being used.

62,46,67,74,79,80,82,84

RECOMMENDATIONS

The following are recommendations as part of our pollution prevention program. Although you are not required to implement any of these opportunities, we recommend you consider all of them. More detailed information is included in the guidance documents that we sent to you during the initial mailing. If you have questions about any of these recommendations, please call me at 541-2270 for more information.

MARION COUNTY HEALTH DEPARTMENT: DRY CLEANER INSPECTION CHECKLIST Establishment: Accent DRY Cleaners Date: 5/30/95 Reason: Initial (I) TRecheck (R) Contact: C. Dodson Building: D Free Standing (F) 3819 W. MICHIGAN ST. Title: OWNER Attached Commercial (C) State/Zip: INOOLS IN 46222 Inspector: SPEARS o wumber: ☐ Attached Residential (R) Wt. **NESHAPS REQUIREMENTS HAZARD COMMUNICATION PROGRAM** Wt. 3 Perc purchase receipts for last 12 months available 4 01 Written program available 1 39 3 Annual running total of perc consumption calculated: 02 Contains an MSDS for all hazardous substances on-site gal/yr Dry to dry 1 # of dry cleaning machines: 03 Contains a list of all hazardous substances on-site Coin Op 1 Source category: Small area Large area Major 04 Indicates who is responsible for maintaining MSDSs 41 05 Explains the proper labeling of containers 1 42 Facility type: New (on or after Dec 9, 1991) Existing 43 06 Explains how to respond to non-routine tasks 1 Sent "Initial Notification Reporting Requirements for Perc Dry 2 Cleaning Facilities" form to the EPA or IDEM R 07 Documents training of employees (recommended only) 44 Sent "Compliance Report for Pollution Prevention" to EPA or IDEM WRITTEN RESPIRATOR PROGRAM 2 Personal air monitoring has been performed \(\textit{lequired in plants with}\) 4 45 Owners manuals for all dry cleaning equipment available 2 transfer machines, recommended for all others) 46 Written log of leak detection and repair program available (weekly 3 Written respirator program available (required if exposed to > 1003 for Existing Large Area Sources; biweekly for all others) 09 ppm TWA or > 200 ppm STEL or if respirators are on-site) 47 All repairs made within 24 hours, or parts ordered within 2 days 3 1 10 Explains the proper usage and limitations of respirators and repairs made within 5 days of receipt of the parts NEW SMALL AREA AND NEW LARGE AREA SOURCES 1 11 Requires medical surveillance All new machines (manufactured after Dec 9, 1991) are closed-5 12 Requires the use of NIOSH-approved respirators 1 loop, refrigerated dry-to-dry machines 1 Requires regular inspection and cleaning of respirators 13 Records available of weekly measurements of the exhaust on the 3 Respirators are stored properly and are in good condition 1 14 outlet side of all refrigerated condensers (must be <45° F) WRITTEN EXPOSURE CONTROL PLAN **EXISTING LARGE AREA SOURCES** Written Exposure Control Plan available (required if employees 3 Submitted "Compliance Report for Control Requirements" to EPA handle laundry contaminated with bodily fluids) (not required until 10/23/96, but must comply with the following if Includes a copy of the standard and explains its contents 1 they have submitted this report) 1 Explains universal precautions 51 If using a refrigerated condenser on a washer, records available of 3 18 Employees are trained on the symptoms of bloodborne diseases and weekly measurements of the inlet and outlet side of the modes of transmission refrigerated condenser (difference must be at least 20°F) Explains the selection, use, location, handling and disposal of PPE 1 19 If using a refrigerated condenser on a dry-to-dry machine, reclaimer. 20 Hepatitis B vaccination provided to employees free of charge 1 or dryer, records available of weekly measurements of the exhaust 21 Explains the procedure to follow if an exposure occurs 2 outlet temperature of all refrigerated condensers (must be ≤45F) Describes the signs, labels, and color coding of infectious waste 1 22 If using a carbon adsorber, records available of weekly containers measurements of the concentration of perc in the carbon adsorber 2 23 Documents training of affected employees initially and annually exhaust. Must be taken using a detector tube while the machine is WRITTEN ENERGY CONTROL (LOCK-OUT/TAG-OUT) PROGRAM venting to the carbon adsorber at the end of the last dry cleaning 3 Written lock-out/tag-out program available cycle prior to description (must be $\leq 100 \text{ ppm}$) 24 Requires stored energy to be released or blocked before equipment HAZARDOUS WASTE DISPOSAL 25 1 Generator status: ☐ CESQG (<220 lbs / month) is locked-out for repair □ SQG (≥220 lbs / month, ≤2,200 lbs / month) 1 26 Requires employees to check the lock-out by attempting a start □ L06 (> 2,200 lbs / month) after lockout If CESOG, 55-58 ere recommendations only Documents training of affected and authorized employees 1 27 55 EPA Identification number: 5 (28) Requires that employees can be identified by their locks and tags 1 56 Waste manifests for last three years available 4 1 (29) Provides authorized employees with tags individually keyed locks Requires authorized employees to keep possession of their individual

keys during a lock-out procedure

Identifies safe procedure for machines that cannot be locked-out or

EAP available (oral if < 10 employees, written if ≥ 10 employees)

Designates escape procedures and routes and employee accounting

Describes means of reporting emergencies and lists emergency

Addresses fires, chemical spills, tornadoes, blizzards, floods, and

Describes rescue and medical duties of employees

Number of employees:

3

1

1

1

31

34

35

36

tagged-out

EMERGENCY ACTION PLAN

phone numbers

bomb threats

following an evacuation

57 Licensed hazardous waste hauler used to transport weste 5 58 Contingency plan for waste-related emergencies, including 24 hour 3 contact (not required to be in writing for CESQG or SQG) CESGG: recommend complying with 55-58 R PERCHLOROETHYLENE STORAGE AREA

All perc containers labeled with proper name and hazard warning 5 61 All perc stored indoors in closed, non-leaking containers 5 All perc containers stored as a manner to allow easy daily inspection. 62 Secondary containment or floor drain covers provided 63 P Spill plen in place to reduce loss and contamination during perc spills R 85 Perc transferred using spigots or pumps from properly vented: R containers directly to machines Containers emptied completely before cleaning or disposal R

SPOT	TING AREAS	Wt
68	All containers are labeled with proper name and hazard warning	5
69	All spotters are trained on the hazards of all spotting solvents	3.
ZAF	RDOUS WASTE STORAGE AREA	
	All waste stored in a secure location in sealed, leak-proof containers	.5
71	All containers labeled "Hazardous Waste" or with similar words	5
72	Accumulation dates recorded on all hazardous waste containers	4
73	Small Quantity Generators: accumulate waste for ≤180 days	3
74	All containers stored in a manner to allow easy daily suspection	R
75	Secondary containment or floor drain covers provided	R
DRY C	LEANING EQUIPMENT	
76	Dry cleaning machine(s) and equipment is free of leaks	5
77	Machine doors are kept closed except when loading and unloading	3
78	Cartridge filters are drained in their housings or a sealed container for at least 24 hours	4
79	Solvent mileage tracked (pounds of garments per gallon of perc)	R
80	Preventive maintenance program in place	P
81	Dry cleaning equipment efficiency is optimized	R
82	Wet cleaning used whenever possible	R
	man aremind many associates haranno	
83	Transfer machines are being replaced	R
38888		R R

priority; 1-Lower priority, correct these defects after all others are corrected

ENE	RAL WORK AREA	Wt.
86	Exhaust fan installed and operational in restroom(s)	3
87	Paper towels provided in restroom(s)	4
88	Hot water available in restroom(s)	4
89	Connected to the sanitary sewer	5
90	IOSHA workplace poster displayed where all employees will see it	3
91	"Exit" signs posted and illuminated; "Not an Exit" signs posted	2
92	Aisles are clear for egress purposes	4
93	All moving chains, belts, gears, and fan blades within 7 feet of the working level are properly guarded	4
94	Steam pipes are insulated or labeled properly	4
95	Fire extinguishers mounted properly, serviced annually and marked accordingly	3
96	Work areas are clean and well lit	2
97	Good housekeeping is employed to allow easier detection of leaks	R
	and prevent additional contamination during spills	
98	Recycling program in place for hangers and germent bags	R
LECT	RICAL	
99	Switches, receptacles, fittings, and junction boxes covered properly	3
100	Extension cords are not used as permanent wiring	3
101	All receptacles are grounded or appliance wiring is double insulated	3
102	All appliance cords are grounded cords or double insulated	3
103	All wiring is in good condition, including no fraying or deterioration	3
104	Flexible cords and cables are free of splices and taps	3
105	Circuit breakers and disconnecting switches labeled	3

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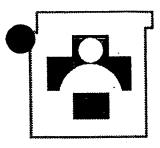
MARION COUNTY HEALTH DEPARTMENT: DRY CLEANER INSPECTION CHECKLIST Establishment: ACCENT DRY CLEANERS Reason: Initial (I) ARecheck (R) 3819 WE MICHEAN STO Contact: C Building: Free Standing (F) State/Zip: INOPIS Title: OCHEZ Attached Commercial (C) vumber: Inspector: Attached Residential (R) DEARS HAZARD COMMUNICATION PROGRAM **NËSHAPS REQUIREMENTS** Wt. 01 Written program available 3 Perc purchase receipts for last 12 months available 4 02 Contains an MSDS for all hazardous substances on-site 1 39 Annual running total of perc consumption calculated: gal/yr 3 03 Contains a list of all hazardous substances on-site 40 .1 # of dry cleaning machines: Dry to dry Transfer Coin Op 04 Indicates who is responsible for maintaining MSDSs 1 41 Source category: Q Small area Large area 05 Explains the proper labeling of containers 1 42 Facility type: New (on or after Dec 9, 1991) 06 43 Sent "Initial Notification Reporting Requirements for Perc Dry Explains how to respond to non-routine tasks 1 2 07 Documents training of employees (recommended only) R Cleaning Facilities" form to the EPA or IDEM WRITTEN RESPIRATOR PROGRAM 44 Sent "Compliance Report for Pollution Prevention" to EPA or IDEM 2 Personal air monitoring has been performed (required in plants with 4 45 Owners manuals for all dry cleaning equipment available 2 transfer machines, recommended for all others) 46 Written log of leak detection and repair program available (weekly 3 09 Written respirator program available (required if exposed to > 1003 for Existing Large Area Sources; biweekly for all others) ppm TWA or > 200 ppm STEL or if respirators are on-site) All repairs made within 24 hours, or parts ordered within 2 days 3 10 Explains the proper usage and limitations of respirators 1 and repairs made within 5 days of receipt of the parts 11 Requires medical surveillance 1 NEW SMALL AREA AND NEW LARGE AREA SOURCES Requires the use of NIOSH-approved respirators All new machines (manufactured after Dec 9, 1991) are closed-12 1 5 loop, refrigerated dry-to-dry machines 13 Requires regular inspection and cleaning of respirators 1 Records available of weekly measurements of the exhaust on the 3 14 Respirators are stored properly and are in good condition 1 outlet side of all refrigerated condensers (must be <45" F) WRITTEN EXPOSURE CONTROL PLAN **EXISTING LARGE AREA SOURCES** Written Exposure Control Plan available (required if employees 3 Submitted "Compliance Report for Control Requirements" to EPA handle laundry contaminated with bodily fluids (not required until 10/23/96, but must comply with the following if Includes a copy of the standard and explains its contents 1 they have submitted this report) **Explains universal precautions** 1 If using a refrigerated condenser on a washer, records available of 3 Employees are trained on the symptoms of bloodborne diseases and 1 18 weekly measurements of the inlet and outlet side of the modes of transmission refrigerated condenser (difference must be at least 20°F) 19 Explains the selection, use, location, handling and disposal of PPE 1 If using a refrigerated condenser on a dry-to-dry machine, reclaimer, 3 1 20 Hepatitis B vaccination provided to employees free of charge or dryer, records available of weekly measurements of the exhaust 21 Explains the procedure to follow if an exposure occurs 2 outlet temperature of all refrigerated condensers (must be <45F) 22 Describes the signs, labels, and color coding of infectious waste 1 53 If using a carbon adsorber, records available of weekly 3 containers measurements of the concentration of perc in the carbon adsorber 23 Documents training of affected employees initially and annually 2 exhaust. Must be taken using a detector tube while the machine is WRITTEN ENERGY CONTROL (LOCK-OUT/TAG-OUT) PROGRAM venting to the carbon adsorber at the end of the last dry cleaning Written lock-out/tag-out program available 3 24 cycle prior to description (must be $\leq 100 \text{ ppm}$) 25 Requires stored energy to be released or blocked before equipment HAZARDOUS WASTE DISPOSAL 1 is locked-out for repair Generator status: ☐ CESQG (< 220 lbs / month) 26 Requires employees to check the lock-out by attempting a start 1 ☐ SQG (≥220 lbs / month, ≤2,200 lbs / month) ☐ LOG (> 2,200 lbs / month) after lockout If CESQG, 55-58 are recommendations only 27 Documents training of affected and authorized employees 1 28 Requires that employees can be identified by their locks and tags 55 EPA Identification number: 5 1 Waste manifests for last three years available 56 4 29 Provides authorized employees with tags individually keyed locks 1 57 Licensed hazardous waste hauler used to transport waste 5 30 Requires authorized employees to keep possession of their individual 1 58 Contingency plan for waste-related emergencies, including 24 hour keys during a lock-out procedure 3 contact (not required to be in writing for CESQG or SQG) 31 Identifies safe procedure for machines that cannot be locked-out or 1 CESQC: recommend complying with 55:58 59 tagged-out R **EMERGENCY ACTION PLAN** Number of employees: PERCHLOROETHYLENE STORAGE AREA EAP available (oral if < 10 employees, written if ≥ 10 employees) 3 All perc containers labeled with proper name and hazard warning 5 61 Designates escape procedures and routes and employee accounting 1 All perc stored indoors in closed, non-leaking containers 5 All perc containers stored in a manner to allow easy daily inspection following an evacuation R 34 Describes means of reporting emergencies and lists emergency 1 Secondary containment or floor drain covers provided 63 R phone numbers Spill plan in place to reduce less and contamination during perc spills R 35 Describes rescue and medical duties of employees 1 Perc transferred using spigots or pumps from properly vented R 36 Addresses fires, chemical spills, tornadoes, blizzards, floods, and 1 containers directly to machines bomb threats Containers emptied completely before cleaning or disposal. R

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01 01	ING ANCAS	AA£
68	All containers are labeled with proper name and hazard warning	5
69	All spotters are trained on the hazards of all spotting solvents	3
AZAI	RDOUS WASTE STORAGE AREA	
	All waste stored in a secure location in sealed, leak-proof containers	5
71	All containers labeled "Hazardous Waste" or with similar words	5
72	Accumulation dates recorded on all hazardous waste containers	4
73	Small Quantity Generators: accumulate waste for ≤180 days	3
44	All containers stored in a manner to allow easy daily inspection	R
<i>Q</i> 5	Secondary containment or floor drain covers provided	R
ORY C	LEANING EQUIPMENT	
76	Ory cleaning machine(s) and equipment is free of leaks	5
77	Machine doors are kept closed except when loading and unloading	3
78	Cartridge filters are drained in their housings or a sealed container for at least 24 hours	4
(19)	Solvent mileage tracked (pounds of garments per gallon of perc)	A
(80)	Preventive maintenance program in place	R
81_	Dry cleaning equipment efficiency is optimized	R
(92)	Wet clearing used whenever possible	R
83	Transfer machines: ere being replaced	R
84	Recovering solvent vapars using carbon adsorbers or refrigerated condensers	R
85	Recover weste solvent using a still or muck cooker	R

GENEF	RAL WORK AREA	Wt.
86	Exhaust fan installed and operational in restroom(s)	3
87	Paper towels provided in restroom(s)	4
88	Hot water available in restroom(s)	4
89	Connected to the sanitary sewer	5
90	IOSHA workplace poster displayed where all employees will see it	3
91	"Exit" signs posted and illuminated; "Not an Exit" signs posted	2
92	Aisles are clear for egress purposes	4
93	All moving chains, belts, gears, and fan blades within 7 feet of the working level are properly guarded	4
94	Steam pipes ere insulated or labeled properly	4
95	Fire extinguishers mounted properly, serviced annually and marked accordingly	3
96	Work areas are clean and well lit	2
(97)	Good housekeeping is employed to allow easier detection of leaks	R
	and prevent additional contamination during spills	
88	Recycling program in place for hangers and garment bags	R
LECT	RICAL	
99	Switches, receptacles, fittings, and junction boxes covered properly	3
100	Extension cords are not used as permanent wiring	3
101	All receptacles are grounded or appliance wiring is double insulated	3
102	All appliance cords are grounded cords or double insulated	3
103	All wiring is in good condition, including no fraying or deterioration	3
104	Flexible cords and cables are free of splices and taps	3
105	Circuit breakers and disconnecting switches labeled	3

	Recommodation	25 &	62-64 97,98.	66,	74, 75,	79,80	, 82
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Marion County Health Department

3838 N. Rural St. Indianapolis, Indiana 46205 (317) 541-2270

June 07, 1995

Owner Charles Dodson 3819 W. Michigan Road Indianapolis, IN 46222

Dear Sir or Madam:

Upon reinspection on May 30, 1995 of ACCENT DRY CLEANERS located at 3819 W MICHIGAN ST it was determined that complete compliance with the initial Notice of Violation has not been attained. Therefore, an extension of time has been granted until July 11, 1995 to comply with the initial Notice of Violation. Further extensions may not be granted if significant progress has not been made by July 11, 1995. Defects remaining to be corrected are:

Chapter & Section	Observed Defects and Suggested Corrections
19-307	Hazardous energy program (lock-out / tag-out) does not require that authorized employees can be identified by their own locks and tags.
	Require in your hazardous energy program that authorized employees can be identified by their own locks and tags.
19-307	Hazardous energy program (lock-out / tag-out) does not provide authorized employees with tags and/or individually keyed locks.
	Provide authorized employees with tags and/or individually keyed locks.

Corrective actions must be completed by July 11, 1995. If you have any questions, please call me at 541-2270.

Sincerely,

Gregory L. Spears

Environmental Health Specialist III Department of Water Quality and Hazardous Materials Management Bureau of Environmental Health

RECOMMENDATIONS

The following are recommendations as part of our pollution prevention program. Although you are not required to implement any of these opportunities, we recommend you consider all of them. More detailed information is included in the guidance documents that we sent to you during the initial mailing. If you have questions about any of these recommendations, please call me at 541-2270 for more information.

GENERAL MOTORS CORPORATION ALLISON PLANT 10 MEETING DISCUSSION ITEMS

1) BACKGROUND

- Prior to 1974
- GM purchases property for use as warehouse for excess equipment
- GM sells property
- Removal action

2) REMEDIAL INVESTIGATION

- Physical setting
- Groundwater use and flow direction
- Soil analytical results
- Groundwater analytical results
- Additional investigation

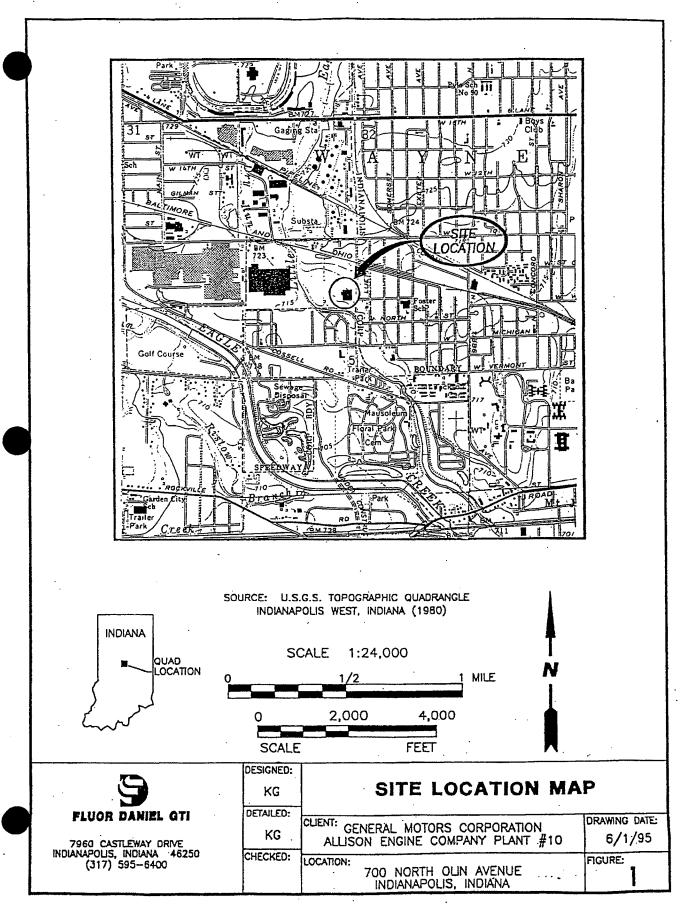
3) FEASIBILITY STUDY

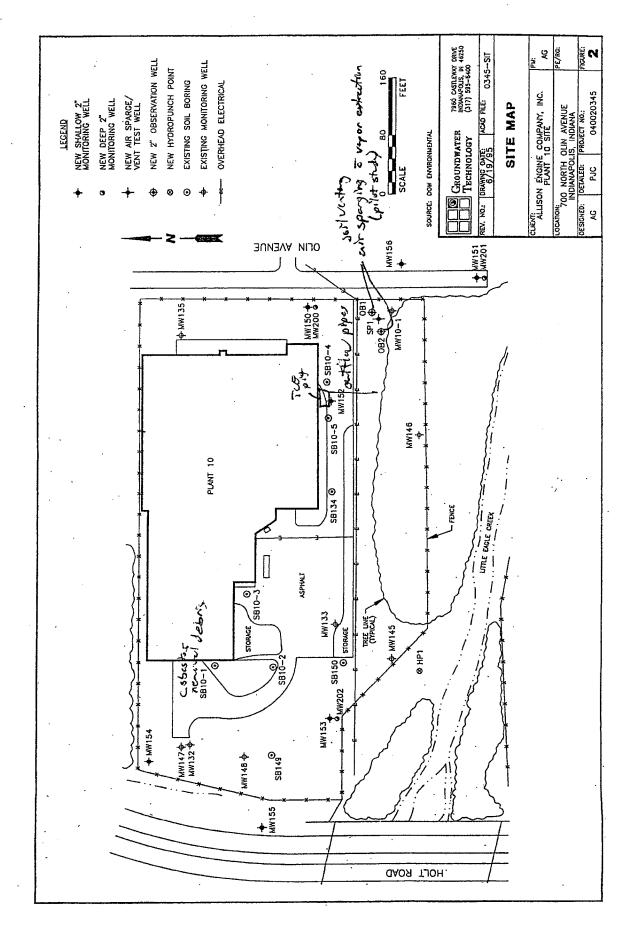
- Primary alternatives considered
 Pump and Treat, and SVE
 Air sparging and SVE
- Pilot Study
- 4) REMEDIAL DESIGN AND IMPLEMENTATION

File under.

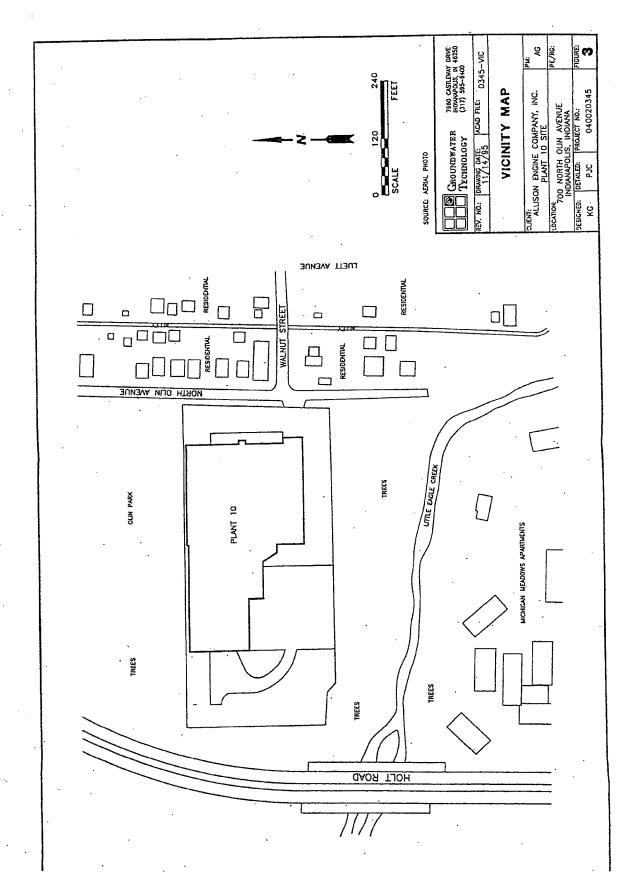
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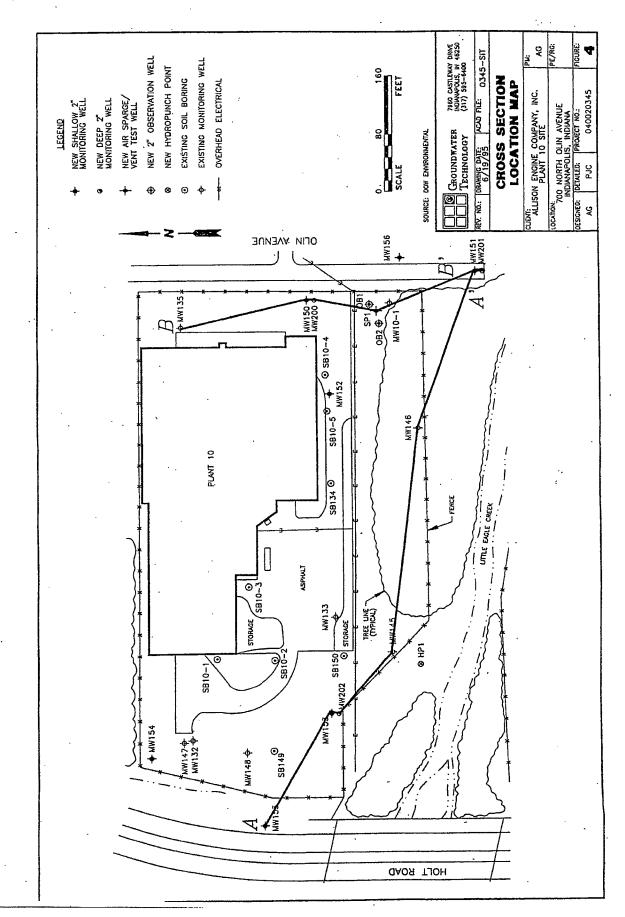




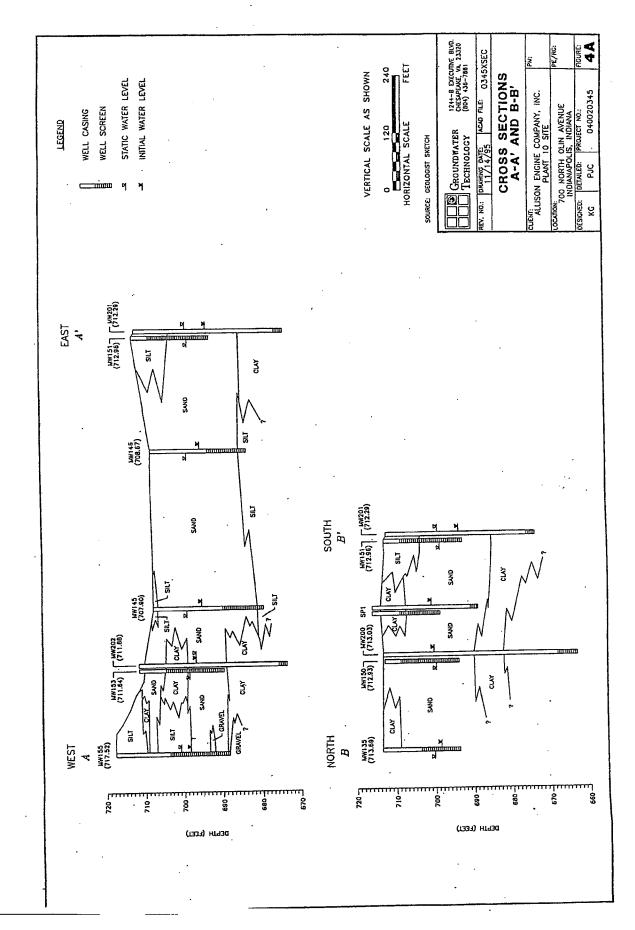
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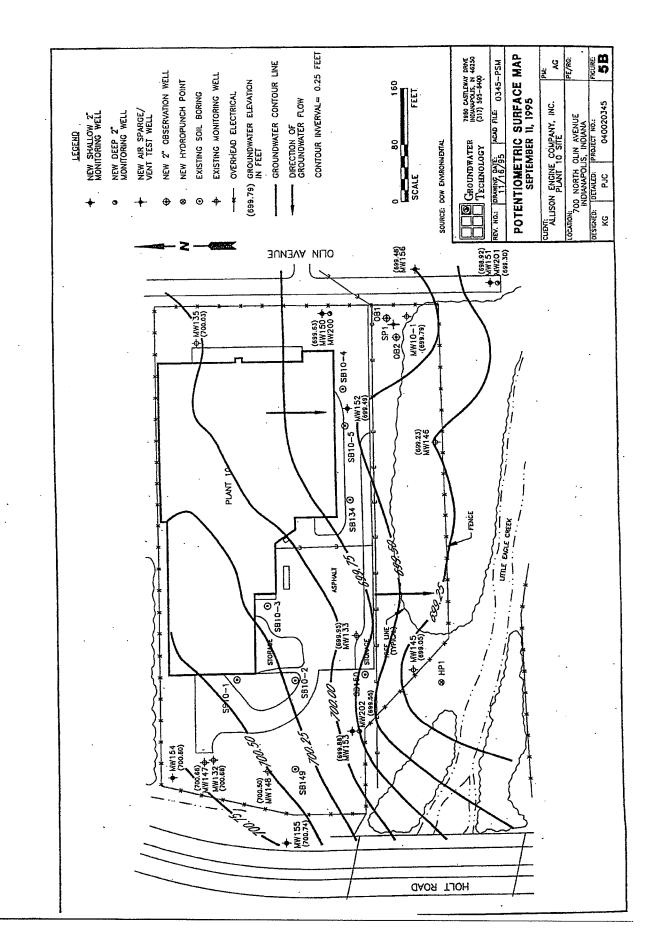


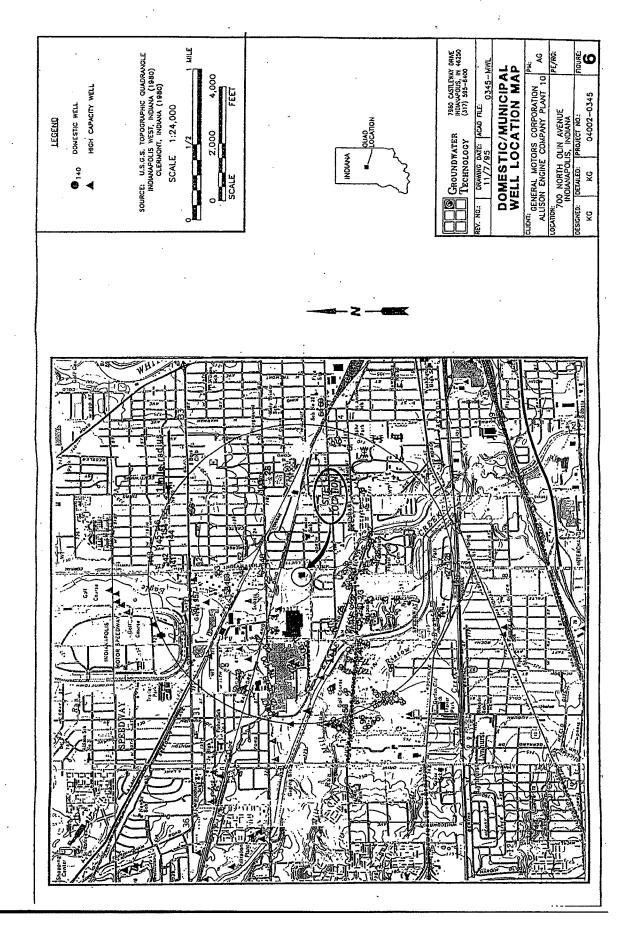
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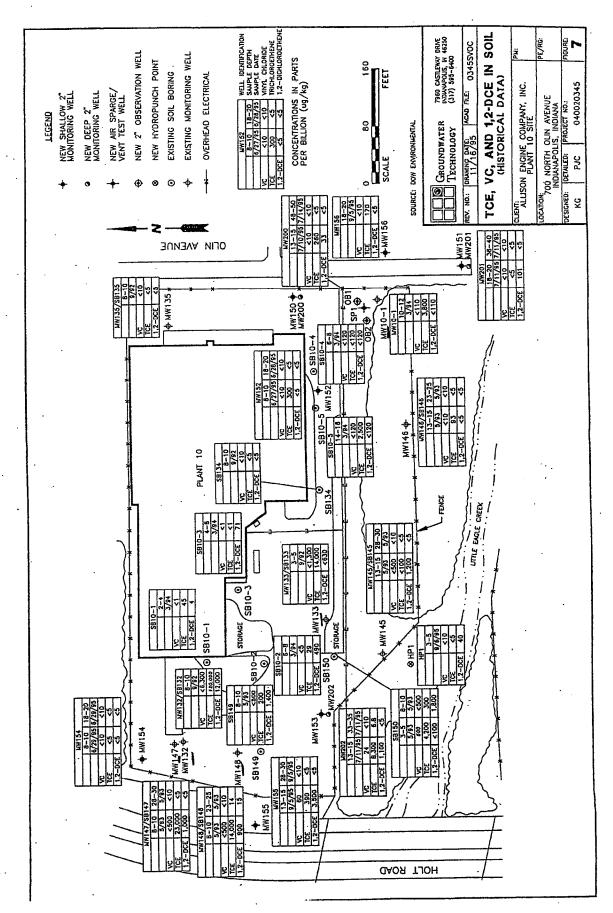


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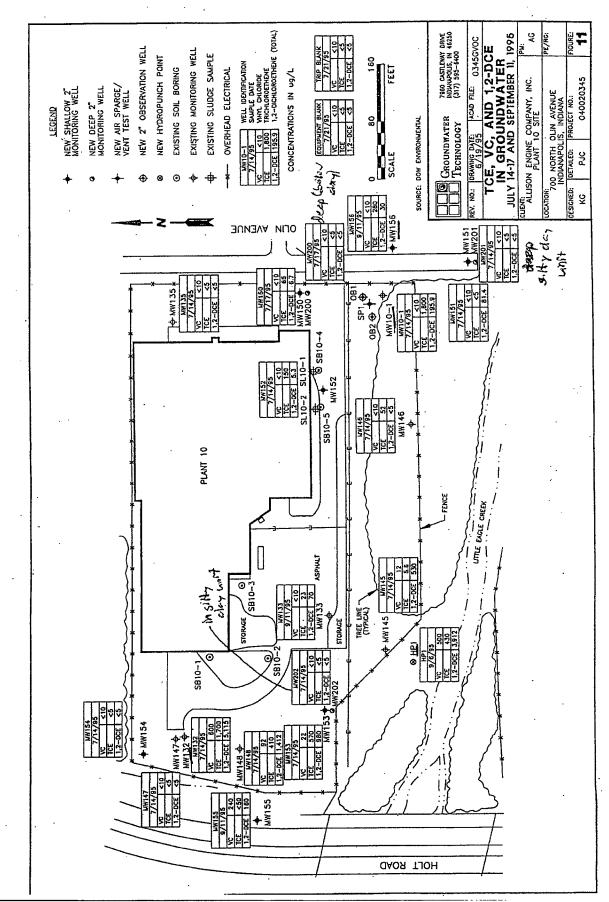








AIM001320



· Commitments Exchanged

- Journal Entry Thoughts & Ideas
- Agendas (telephone, meetings)Conversations

SEPTEMBER 1996 DAILY RECORD OF EVENTS



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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Frank O'Bannon
Governor

Lori F. Kaplan Commissioner



100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.state.in.us/idem

January 13, 2000

Mr. Adam Carrol Health and Hospital Corporation of Marion County 3838 North Rural 5th Floor, Suite 520 Indianapolis, Indiana 46205

> Re: Notice of Voluntary Remediation Project Former Allison Engine Company, Plant 10 700 North Olin Avenue Indianapolis, Indiana VRP Site 6991004

Dear Mr. Carrol:

In an effort to communicate to your office information which may be of interest, the Indiana Department of Environmental Management (IDEM) is notifying you that IDEM's Voluntary Remediation Program (VRP) has accepted an application for a voluntary remediation project in your community. The site is known as the Former Allison Engine Company, Plant 10 as referenced above.

A copy of the application, and all information currently available, is available for public review at the VRP file room located at:

Indiana Department of Environmental Management Office of Land Quality File Room 2525 North Shadeland Avenue Indianapolis, Indiana 46206-6015 (317) 308-3023 If you have any questions, please contact me at (317) 308-3129 or at (800) 451-6027. You may also contact me in writing at:

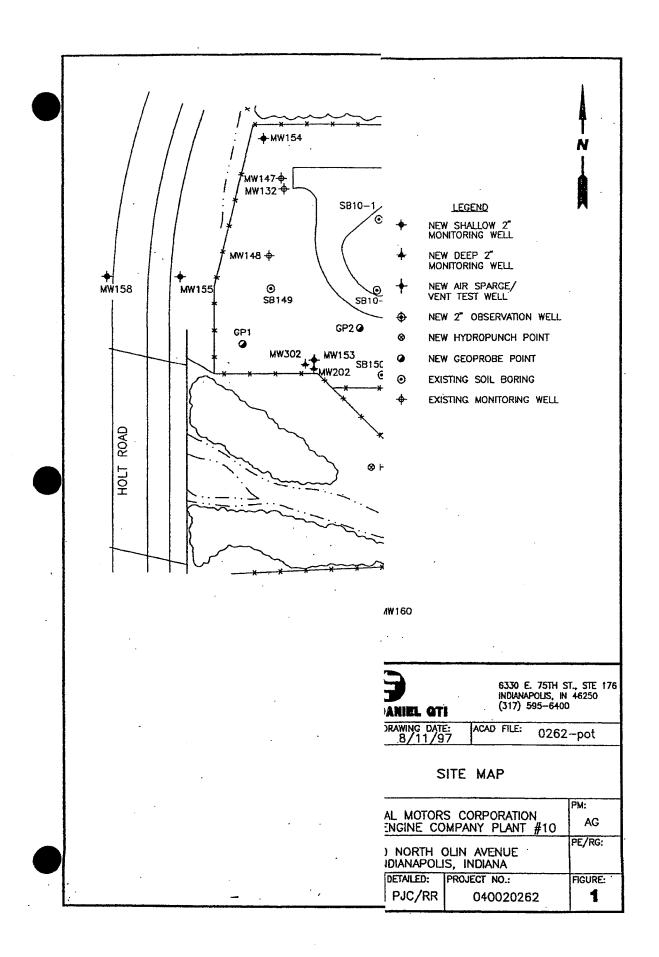
Voluntary Remediation Program 100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015

12/1999

Sincerely,

Andrea Robertson, Project Manager Voluntary Remediation Program

Office of Land Quality



MARion Co HD



Indiana Department of Environmental Management

We make Indiana a cleaner, healthier place to live

Evan Bayh Governor Michael O'Connor Commissioner 100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

VIA CERTIFIED MAIL Z 339 936 246

November 26, 1996

Mr. Kevin Caraker
Allison Engine Co., Inc. Plant 10
700 North Olin Avenue

P.O. Box 420 Mail Stop N23 Indianapolis, Indiana 46206 title bofile

Dear Mr. Caraker:

Re: Letter of Compliance

Hazardous Waste Management Compliance Evaluation Inspection Allison Engine Co., Inc. Plant 10 EPA I.D. No. IND 000 806 810 Indianapolis, Marion County

Representatives of the Department of Environmental Management (Department) are conducting inspections of facilities in Indiana that are engaged in the generation, transportation, treatment, storage, or disposal of hazardous waste. Facilities are being inspected to determine compliance with Indiana Code 13 (IC 13), "Environmental Management Act," and Indiana Administrative Code 329 IAC 3.1, "Hazardous Waste Management Permit Program and Related Hazardous Waste Management Requirements." These inspections and record reviews are also being conducted pursuant to the requirements of the Resource Conservation and Recovery Act (RCRA), Public Law 94-580, as amended, for authorized state hazardous waste management programs.

This is to inform you that on September 23, 1996, I conducted an inspection of Allison Engine Co., Inc. Plant 10, located at 700 North Olin Avenue. You represented your firm at this inspection.

Based on the information gathered during the inspection, it appears that your company does not generate a hazardous waste as defined by Subpart C of 40 CFR 261 and 329 IAC 3.1-3. This being the case, your company would not be subject to the hazardous waste rules. Our office will assume that you agree with this determination unless you inform us otherwise in writing. If your

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Letter of Compliance Allison Engine Co., Inc. Plant 10 Page 2

status should change in the future, please advise this office in writing so that we can update our records. If the above information is correct, your company has the option of removing itself from the hazardous waste management system entirely. If you wish to pursue this option, please contact this office for further information.

If you have further questions relative to this matter, please contact me at 317/233-2406.

Very truly yours,

Lisa E. Smith

Compliance Inspector

Compliance Section

Hazardous Waste Compliance Branch Solid and Hazardous Waste Management

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LES

Enclosure

cc: Marion County Health Department



FAVERO GEOSCIENCES

1210 SOUTH 5TH STREET, SUITE 2 SPRINGFIELD, IL 62703 TEL - (217) 522-6714 FAX - (217) 522-6727

March 28, 1997

Mr. Ralph Luke
Indiana Department of Environmental Management
Emergency Response Section
2525 North Shadeland Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

RE: Incident Number 9412032
Allison Engine Company, Plant 10
700 North Olin Avenue
Indianapolis, IN

Dear Mr. Luke:

This correspondence is submitted on behalf of General Motors Corporation (GM). Thank you for arranging the meeting regarding the above incident with a representative of your group on September 26, 1996. I am sorry you were not able to attend the meeting.

This correspondence is a follow-up to that September 26, 1996 meeting and is provided in an effort to keep you informed of additional information obtained regarding the environmental conditions at the site. At the September 26, 1996 meeting we discussed GM's intentions to perform additional investigation at and in the vicinity of the above referenced site. The additional investigation included sampling of nearby Little Eagle Creek, additional on-site soil sampling, installation of additional on- and off- site monitoring wells, and an additional round of groundwater monitoring. The Marion County Health Department (MCHD) also agreed to perform a well survey in the area south and east of the site.

The sampling of the creek was performed on October 4, 1996 and again on February 10, 1997 by employees of Fluor Daniel GTI. The creek samples were analyzed for Volatile Organic Compounds (VOCs) by Method 8240B. For the October 1996 sampling event there were no VOCs detected in the upstream sample (ST-1), while cis-1,2-Dichloroethene (cis-DCE) was detected at 17 µg/L in the sample collected from south of the site (ST-2), and at 14 µg/L in the sample collected downstream from the site. There were no VOCs detected in the trip blank. Stream flow volume (discharge) during the October sampling event was relatively low, estimated at from 4 to 8 cubic feet per second (cfs). For comparison, the reported October stream flow from the period 1965 to 1995 for a stream gauging station approximately 1.2 miles upstream from the site ranges from 0.81 to 88.9 cfs with a mean of 11.1 cfs. A Figure illustrating the sampling locations and the analytical results is enclosed for your reference.

Page 2 of 3

Because of the detection of cis-DCE in the stream samples in October, samples were again collected in February 1997 from approximately the same locations in the creek. There were no VOCs detected from the analysis of these samples. The estimated stream flow at the time of sampling was approximately 22 cfs. The reported February stream flow from the period of 1965 to 1995 for the gauging station approximately 1.2 miles upstream ranges from 3.82 to 75.5 cfs with a mean discharge of 30.4 cfs.

As the concentrations of cis-DCE detected in October 1996 are below its drinking water standard of 70 µg/L (we understand that there is no Indiana surface water quality criteria for cis-DCE), we do not believe that these results merit any immediate action other than the resampling which was performed and described above. The October results represent near worst case conditions and based on the detected concentrations and stream discharge, detectable concentrations of cis-DCE are likely only present in the creek a small percentage of a given year.

Additional on-site soil sampling did not identify any specific source areas for VOCs in the vadose zone. However, the results further demonstrated the migration of VOCs in the groundwater toward the creek in the southwest portion of the site. A Figure illustrating the sampling locations and the analytical results is enclosed for your reference.

The installation of additional on- and off-site monitoring wells was completed in January 1997. All new and existing monitoring wells were sampled on February 5 and 6, 1997. These results indicate that the extent of VOC contamination of the groundwater is defined in all directions, including vertically, except to the east-southeast of the site. MW157, which is the monitoring well located the farthest east from the site, contained concentrations of Trichloroethene (TCE) greater than its drinking water standard. MW157 was resampled on February 26, 1997 to verify the previously detected TCE concentration. The resampling results also showed the detection of TCE above its drinking water standard. A Figure illustrating the sampling locations and the analytical results is enclosed for your reference. Also enclosed is a Figure illustrating the groundwater potentiometric surface and resulting groundwater flow.

In response to the observed TCE concentration in MW157, GM will instruct Fluor Daniel GTI to install and sample two additional monitoring wells east and south of MW157. The enclosed Vicinity Map illustrates preliminary locations. It is hoped that these wells will allow for the determination of the extent of groundwater impacted above drinking water standards by VOCs.

As discussed during our September 26, 1996 meeting, the MCHD performed a well survey in the vicinity of the plant. The only well identified from the survey is at 709 North Olin Avenue and is identified on the enclosed Vicinity Map. A representative of the MCHD also sampled the well and the sample was analyzed for VOCs among other parameters. No VOCs were detected in the sample and all parameters analyzed were below drinking water standards. MCHD also indicated

that they would sample the well periodically and analyze the samples for VOCs in order to verify that the water from the well does not become impacted by VOCs.

Please contact me if you would like to discuss this matter further. Thank you.

Sincerely,

David M. Favero, CPG

Project Manager

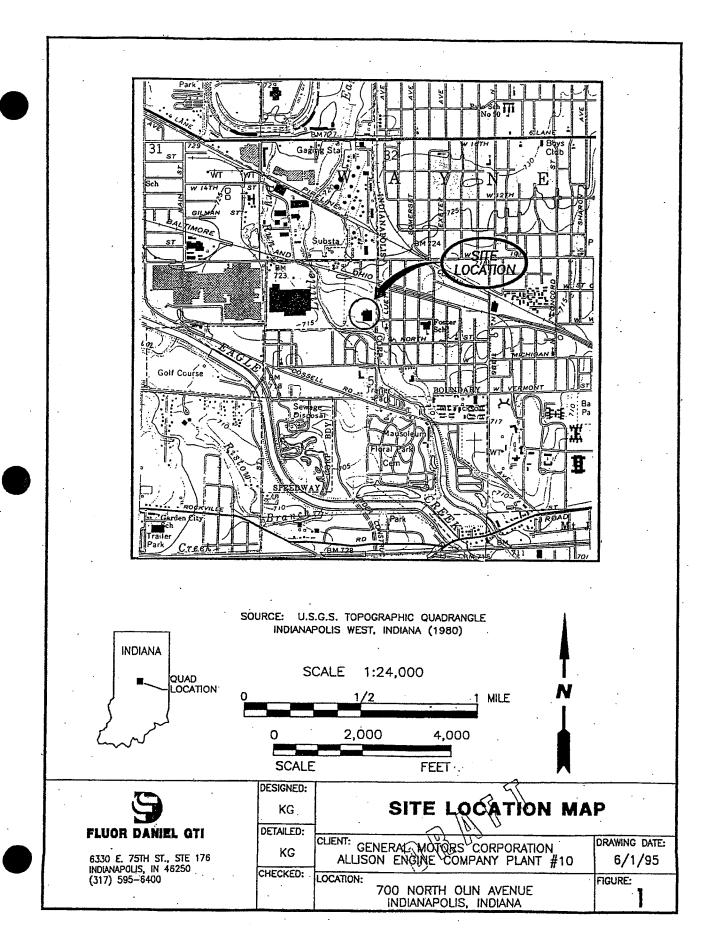
Enclosures

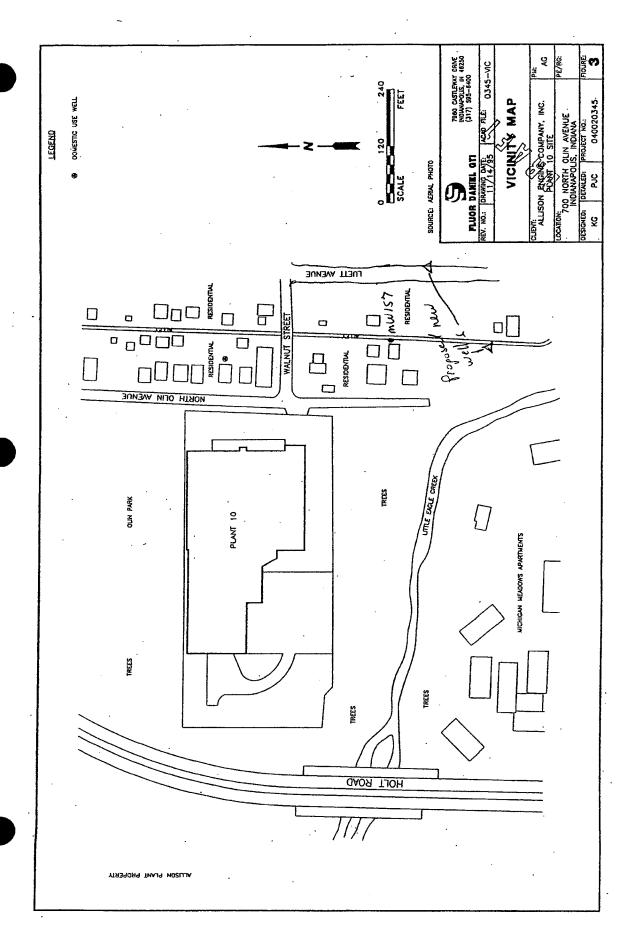
c: Paul Gilson, Marion County Health Department (with enclosures)

Joe Arnold, City of Indianapolis (with enclosures)

Pat Ellis, Allison Engine Company (with enclosures)

Marilyn Dedyne, GM WFG Remediation Team (with enclosures)





Field Shee	et - Initial Insp	ection	
Compleme B: 482 Date: 3/21/97 St. Number: 700	Complainant	Information	Marion County Health
St. Direction:	£ast Name: Gremos		Department
Street Name: Olin St. Type: Ave	Phone: 575-6424 Street Number: 6300	P Tax	Department of Water
St. Suffix:	Direction: E		Quality and Hazardous
Co. Name: Allison Engine Co., Plt #10	Stress Name: 75th ST. Street Type: STE 174	Street Suffix:	Materials Management
Facility Type: CO PILIN SLC GW	City Indpls, IN.	J	Phone: 541-2270
Narrause: file search for chemical well results only - (co	mpany name: Floure Daniels)		34192270
Comptaint Type: FS File Search	EHS Number: 227 Gre	eg Spears	
Field Notes: Response Date: 3/26			
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Location of Response (if different): Responsible Pa	rty:		
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Refuse Process (RP) Residential (RE) Gen Pub Hith (GPH) GW Contam (GWC)	Radon (RA) Septic (SPT) Sail Contam (SLC)	NOV Issued Compliance/Defect Noncompliance	Corrected
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Street (ST) Indoor Air (IAQ) Surface Water (SU) Infectious Wst (IW) Vacant (VA) Lift Station (LS)	Spill (SPL) SW Contam (SWC) SW Sample (SWS)	Signature:	el I
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NATURE SAVER™ FAX MEMO 01616	Date 4/1/97 #of pages > 1
¹⁰ Krista Gremos	From Adam Carroll
Co./Dept.Flour Daniels.	co. WCHO
Phone # 595-6420	Phone # 541-2272
Fax #	Fax # .

WELL CHEMICAL S

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LEAD (10) 404			•					
(Detection Limits)								
Sulfate 74 mg/L		•	-					
Carliameter	<u>l</u>	Vottion Defected				ΔIM	 1001334	



FAVERO GEOSCIENCES

1210 SOUTH 5TH STREET, SUITE 2 SPRINGFIELD, IL 62703 TEL - (217) 522-6714 FAX - (217) 522-6727

July 15, 1998

Ms. Julie D. Reed Marion County Health Department Bureau of Environmental Health 3838 North Rural Street Indianapolis, IN 46205

RE: Incident Number 9412032
Allison Engine Company, Plant 10
700 North Olin Avenue
Indianapolis, IN

Dear Ms. Reed:

This correspondence is submitted on behalf of General Motors Corporation (GM) in response to your request for the results of the sampling from monitoring wells installed to delineate the extent of groundwater containing volatile organic compounds (VOCs) south and east of the Plant. The last update was provided to you in a March 28, 1997 correspondence.

Pursuant to the data presented in the March 28, 1997 update, GM instructed Fluor Daniel GTI to install and sample two additional monitoring wells east and south of MW157 (Figure 1). The purpose of these wells was to determine the horizontal extent of groundwater containing VOCs above their drinking water maximum contaminant levels (MCLs). The wells, designated MW-159 and MW-160, were installed on May 5, 1997 and were sampled on May 15, 1997. The samples were analyzed for VOCs using Method 8240. The analytical results indicated that all VOCs were below detection limits in MW-159 and all VOCs with the exception of trichloroethene at 13 µg/L, were below detection limits in MW-160. The laboratory report is included as Attachment 1. The analytical results from the samples collected from the two new off-site monitoring wells demonstrate that for all practical purposes the extent of groundwater containing VOCs above their MCLs is defined.

IS NOT TOE

As you know, your Department's periodic sampling and analysis of the only identified private well in the downgradient vicinity of the Plant has not detected any VOCs.

Be advised that GM only used the Plant for a warehouse for surplus equipment and never used or stored chlorinated solvents at the Plant. Therefore GM evaluated historical Plant ownership and use in an attempt to identify any parties that may have used or stored chlorinated solvents at the Plant. GM identified a successor of a former Plant owner that used chlorinated solvents as a part

of its business. At this time GM has entered into negotiations with that successor to perform necessary additional remediation activities.

Either GM or the successor will provide you with an update when significant activities are completed. Please contact me if you would like to discuss this matter further. Thank you.

Sincerely,

David M. Favero, CPG

Project Manager

Attachments

Figure 1 – Site Map

Attachment 1 - Laboratory Report .

c: Ralph Luke, IDEM Emergency Response Section (with attachments)

Joe Arnold, City of Indianapolis (with attachments)

Pat Ellis, Allison Engine Company (with attachments) .

Marilyn Dedyne, GM WFG Remediation Team (with attachments)

Mark Hester, GM Legal Staff (with attachments)



Midwest Region

4211 May Avenue Wichita, KS 67209 (316) 945-2624 (800) 633-7936 (316) 945-0506 (FAX)

May 30, 1997

Andrew Gremos Fluor Daniel GTI, Inc. 6330 E. 75th St. Suite 176 Indianapolis, IN 46250

RECEIVED JUN - 2 1997

RE: NEI/GTEL Client ID:

Login Number:

per):

Project ID (number): Project ID (name):

GM/ALLISON PLANT 10/INDIANAPOLIS/IN

Dear Andrew Gremos:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 05/17/97.

010210261

010210261

W7050275

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the State of Kansas under Certification Number E-10103.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Project Coordinator

Sincerely.

NEI/GTEL Environmental Laboratories, Inc.

Terry R. Loucks Laboratory Director

ANALYTICAL RESULTS Volatile Organics

NEI/GTEL Client ID: 010210261 Login Number: W7050275 Project ID (number): 010210261

Project ID (number): 010210261 Method: EPA 82408
Project ID (name): GM/ALLISON PLANT 10/INDIANAPOLIS/IN Matrix: Aqueous

NEI/GTEL Sample Number	W7050275-01	W7050275-02	••	••
Client ID	MW-160	MW-159		
Date Sampled	05/15/97	05/15/97		••
Date Analyzed	05/22/97	05/22/97	• •	
 Dilution Factor	1.00	1.00		* *

	Reporting			-		
Analyte	Limit	Units		oncentration:		
Chloromethane	10.	ug/L	< 10	< 10.		
Bromomethane	10.	ug/L	< 10.	< 10.		
Vinyl chloride HcL= 2.c) 10.	ug/L	< 10.	< 10.		
Chloroethane	10.	ug/L	< 10.	< 10.		
Methylene chloride	5.0	ug/t	< 5.0	< 5.0		- -
Acetone	20.	ug/L	< 20.	< 20.		
Carbon disulfide	5.0	ug/L	< 5.0	< 5.0		
1,1-Dichloroethene	5.0	ug/L	< 5.0	< 5.0		
1,1-Dichloroethane	5.0	ug/t	< 5.0	< 5.0		
cis-1,2-Dichloroethene	5.0	ug/L	< 5.0	< 5.0°		
trans-1.2-Dichloroethene	5.0	ug/L	< 5.0	< 5.0		
Chloroform	5.0	ug/L	< 5.0	< 5.0		
1:2-Dichloroethane	5.0	ug/L	< 5.0	< 5.0		
2-Butanone	20.	ug/L	< 20.	< 20.		
1,1,1-Trichloroethane	5.0	ug/L	< 5.0	< 5.0		
Carbon tetrachloride	5.0	ug/L	< 5.0	< 5.0	**	
Vinyl acetate	20.	ug/L	< 20.	< 20.		
Bromodichloromethane	5.0	ug/L	< 5.0	< 5.0		
1.2-Dichloropropane	5.0	ug/L	< 5.0	< 5.0		
cis-1,3-Dichloropropene	5.0	ug/L	< 5.0	< 5.0		
Trichloroethene	5.0	ug/L	13.	< 5.0		
Dibromochloromethane	5.0	ug/L	< 5.0	< 5.0 °		
1.1.2-Trichloroethane	5.0	ug/L	< 5.0	< 5.0		
Benzene	5.0	ug/L	< 5.0	< 5.0		
2-Chloroethylvinyl ether	10.	ug/L	< 10.	< 10.		
trans-1,3-Dichloropropene	5.0 ⁻	ug/L	< 5.0	< 5.0		
Bromoform	5.0	ug/L	< 5.0	< 5.0		
4-Methyl-2-pentanone	20.	ug/L	< 20.	< 20.		
2-Hexanone	20.	ug/L	< 20.	< 20		
Tetrachloroethene	5.0	ug/L	< 5.0	< 5.0		~ ~
1.1.2.2-Tetrachloroethane	5.0	ug/L	< 5.0	< 5.0		
Toluene	5.0	ug/L	< 5.0	< 5.0		
Chlorobenzene	5.0	ug/L	< 5:0	< 5.0		
Ethylbenzene	5.0	ug/L	< 5.0	< 5.0		
Styrene	5.0	ug/L	< 5.0	< 5.0		- -
Xylenes (total)	5.0	ug/L	< 5.0	< 5.0	~ ~ ·	
1,2-Dichlorobenzene	10.	ug/L	< 10.	< 10.		
1,3-Dichlorobenzene	10.	ug/L	< 10.	< 10.		
1,4-Dichlorobenzene	10	ug/L	< 10.	< 10		
NEI/GTEL Wichita, KS	••		•			

NEI/GTEL Wichita, KS W7050275 Page: 1

ANALYTICAL RESULTS Volatile Organics.

NEI/GTEL Client ID: 010210261

Login Number:

W7050275

Project ID (number): 010210261

Project ID (name): GM/ALLISON PLANT 10/INDIANAPOLIS/IN Method: EPA 8240B

Matrix: Aqueous

NEI/GTEL Sample Number	W7050275-01	W7050275-02	••	••
Client ID	MW-160	MW-159		
Date Sampled	05/15/97	05/15/97	••	••
Date Analyzed	05/22/97	05/22/97		
Dilution Factor	1.00	1.00	· • •	

Reporting

Analyte

Limit

Concentration:

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

NEI/GTEL Wichita, KS W7050275

Page: 2

NEI/GTEL Client ID: 010210261 QUALITY CONTROL RESULTS

Login Number: Project ID (number): 010210261

W7050275

Project ID (name): GM/ALLISON PLANT 10/INDIANAPOLIS/IN

Volatile Organics Method: EPA 8240B

Matrix: Aqueous

Method Blank Results

QC Batch No: Date Analyzed: 052297JK-1 22-MAY-97

Date Analyzed:	22-MAY-9/	
Analyte	Method: EPA 8240B	Concentration: ug/L
Chloromethane	< 10.0	
Bromomethane	< 10.0	
Vinyl chloride	< 10.0	
Chloroethane	< 10.0	
Methylene chloride	< 5.00	
Acetone	< 20.0	,
Carbon disulfide	< 5.00	
1.1-Dichloroethene	< 5.00	,
1.1-Dichloroethane	< 5.00	
cis-1,2-Dichloroethene	< 5.00	
trans-1,2-Dichloroethene	< 5.00	
Chloroform	< 5.00	
1.2-Dichloroethane	< 5.00	
2-Butanone	< 20.0	
1,1,1-Trichloroethane	< 5.00	
Carbon tetrachloride	< 5.00	
Vinyl acetate	< 20,0	
Bromodichloromethane	< 5.00	
1:2-Dichloropropane	< 5.00	
cis-1.3-Dichloropropene	< 5.00	
Trichloroethene	< 5.00	
Dibromochloromethane	< 5.00	
1.1.2-Trichloroethane	< 5.00	
Benzene	< 5.00	
2-Chloroethyl vinyl ether	< 10.0	
trans-1.3-Dichloropropene	< 5.00	
Bromoform	< 5.00	
4-Methyl-2-pentanone	< 20.0	
2-Hexanone	< 20.0	
Tetrachloroethene	< 5.00	
1.1.2.2-Tetrachloroethane Toluene	< 5.00	
	< 5.00	
Chlorobenzene	< 5.00	
Ethylbenzene	< 5.00	
Styrene	< 5.00	
Xylenes (Total)	< 5.00	
1.2-Dichlorobenzene	< 10.0	
1.3-Dichlorobenzene	< 10.0	
1.4-Dichlorobenzene	< 10.0	

Notes:

NEI/GTEL Wichita. KS W7050275:3

NEI/GTEL Client ID: 010210261 QUALITY CONTROL RESULTS

Login Number: W7050275 Project ID (number): 010210261

Project ID (number): 010210261 Method: EPA 8240B
Project ID (name): GM/ALLISON PLANT 10/INDIANAPOLIS/IN Matrix: Aqueous

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

	Spf	ke L	ÇS LCS	LCS Dupli	cate LCS Dup	licate	Acce	otability (imits.	
Analyte	Amo	unt Concen	tration Recover	y, % Concentra	tion Recover	y. % RPD.	X RPD	X Reco	overy, %	
	nits: ug/L	QC Ba	tch:052297J	K-3						
1.1-Dichloroethen	9 50	.0 44	.5 89.0	49.1	98-2	9.8	3 14		61-145%	
Trichloroethene	50	.0 50	.9 102.	50.4	101.	0.9	85 14	************	71-120%	2000-2000 V
Benzene	50	.0 50	7 101	50.9	102.	0.9	85 11		76-127%	.j.2000
Toluene	50	.0 49	.5 99.0	51.2	102.	2.9	9 13		76-125%	V.:180000000000
<u>Chlorobenzene</u>	50	.0 49	.3 98.6	51.3	103	4.3	7 13		75- 1 30%	· 3000000

Notes:

NEI/GTEL Wichita, KS W7050275:4

Volatile Organics

NEI/GTEL Client ID: 010210261

QUALITY CONTROL RESULTS

Login Number: Project ID (number): 010210261

W7050275

Project ID (name): GM/ALLISON PLANT 10/INDIANAPOLIS/IN

Volatile Organics Method: EPA 8240B

Matrix: Aqueous

Conformance/Non-Conformance Summary

(X = Requirements Met

* = See Comments

-- = Not Required

NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT. WC)
GC/MS Tune			NA
Initial Calibration			
Continuing Calibration			
Surrogate Recovery	χ		NA
Holding Time	χ	<u></u> -	
Method Accuracy	X		
Method Precision			
Blank Contamination	. Х	·	

Comments:

NEI/GTEL Wichita, KS W7050275:1



FAVERO GEOSCIENCES

1210 SOUTH 5TH STREET, SUITE 2 SPRINGFIELD. IL 62703 TEL - (217) 522-6714 FAX - (217) 522-6727

7/15/91

The TO:

Too N. QUIN OVE (ALLISON, Plant)

* 1304 H. Dun Que (Planting Ou Co.)

Sorry for the delay in submitting this information.

Also, the detection limit for vinyl chloride will be at or below its MCL for any future monitoring.

Thank you.

David Faves

APPENDIX E

IPL Letter Regarding the Transformer

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APPENDIX F

IPL Letter Regarding the Transformer

O:\M01046 Michigan Meadows Apts\Phase I Investigations\Phase I_Apts.doc



Attn: Leena Lothe Mundell & Associates 429 East Vermont Street Suite 200 Indianapolis, IN 46202

Dear Ms. Lothe,

This letter confirms that Indianapolis Power & Light Company (IPL) owns and maintains many distribution transformers within it's service territory, located in and around the city of Indianapolis, Indiana. These transformers have not been tested for PCB content and thus PPM PCB values are not available. In accordance with EPA Rule 40CFR Part 761, IPL treats all untested transformers as PCB Contaminated (50 - 499 PPM), but not PCB (500 or greater PPM).

IPL did not purchase PCB transformers for use on the distribution system, but a small portion of these transformers may contain low levels of PCB contamination. All transformers purchased since 1980 were manufactured without PCB. The only method to determine the true PCB content, if any, of a transformer is to extract a sample of the oil for laboratory analysis. This action would require an interruption of electric service for the customer(s) and would be performed at the customer's expense.

When an IPL owned transformer is discovered to be releasing oil, IPL will remove the transformer from service and perform a cleanup of any oil that escaped from the transformer. At that time, a sample of the oil from the transformer will be sent to a laboratory to determine the PCB content, if any, of that particular transformer.

Should you have any question, or desire pricing for additional services, you may call me directly at (317) 261-8959.

Bilicerery,

Lawrence B. Rudolf

Transmission Operations Team

APPENDIX F

Wellhead Protection Area Proximity Determination

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APPENDIX F

Wellhead Protection Area Proximity Determination



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Frank O'Bannon Governor

Lori F. Kaplan Commissioner 100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.in.gov/idem

November 5, 2003

Leena Lothe Mundell & Associates, Inc. 429 East Vermont Street, Suite 200 Indianapolis, IN 46202

RE: Wellhead Protection Area Proximity Determination

3800 West Michigan Street Indianapolis, IN 46222

Dear Ms. Lothe:

Upon review of the above referenced site, it has been determined that the site **is not** within a Wellhead Protection Area.

If you have any additional questions, please feel free to contact me at the address above or at (317) 308-3281.

Sincerely,

James Sullivan, Chief Ground Water Section Drinking Water Branch Office of Water Quality



An Equal Opportunity Employer

Please Recycle 💍

APPENDIX G

Property Record Cards

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APPENDIX G

Property Record Cards

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RAMING WOOD JOIST IRE RESISTANT XXX IREPROOF STEEL LEINE. CONCAETE JOORS WOOD JOIST WOOD JOINT WOOD						EFF. PERIM. P.A.R. FLOOR 101/01 01/01 01/01 01/01 01/01 RLFL PRAME AOJ. WALL HT AOJ. WALL HT AOJ. WALL HT AOJ. WALL HT AOJ. HAT AOJ. WALL HT AOJ. HAT AOJ.	1322 UF	18 1	PAYE HGT 25.90 18 25.90 00.00 25.90	8.70 60.75 100.75	HGT RATE
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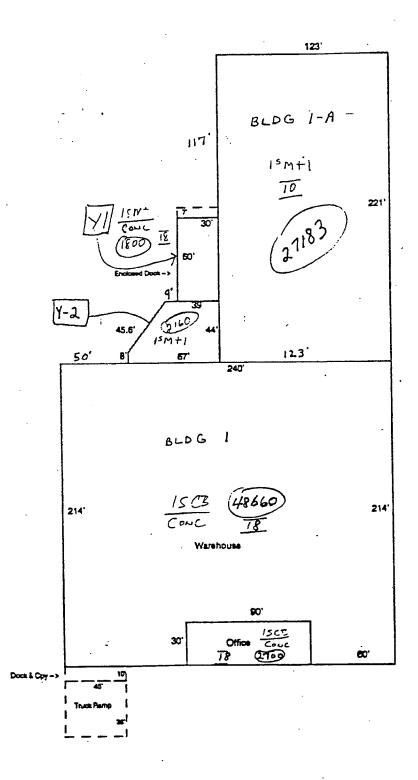
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O.3 / O. OF UNITS V. UNIT SIZE GOOFING WALLS METAL	19/200	03 00367	2					USE TYPE PRICING KEY S.F. AREA EFF. PERIM, P.A.R	999 ENTRY 82503 1322 LF	100% LU S	TORAG I 1800	- Pysion Prayery - Pysion Prayery d - Rabrasd Campany - Rabrasd Campany - Rabrasd Campany	77 Non-Loo	Lead - True Dische
D. OF UNITS D. OF UNITS V. UNIT SIZE IOOFING VALLS METAL RAMING		03 00367	2					USE TYPE PRICING KEY S.F. AREA EFF. PERIM. P.A.R	999 ENTRY 82503 1322 UF	LU S	TORAG I 1800	4 - Pasker Property 1 - Pasker Property 4 - Bahnad Company - Bahnad Company - Bahnad Company	77 New Los	and True Dische
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PLANT #10



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Pickering Valuation Group

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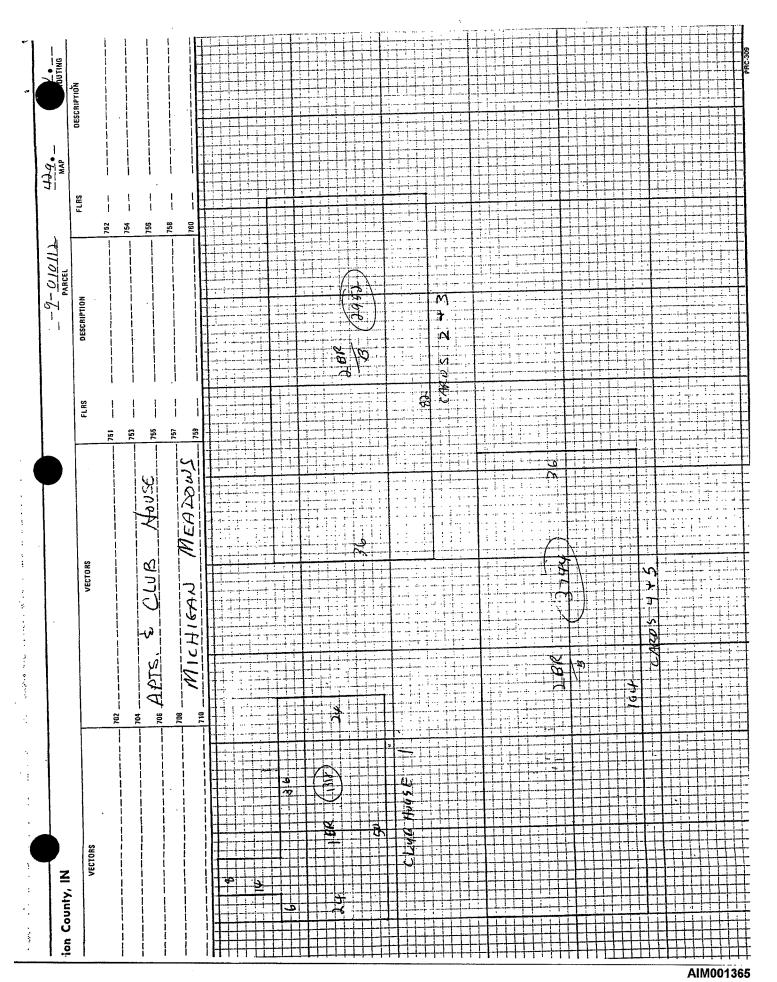
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HOLDINGS	HIGAN LLC			BEG 81	2.955 OF	35 T15 R3 MID E OF		TY ADDRESS		<u> </u>	
C/O PROPE DEPT.#101	L	uX		SEC; S	735.11', ', W180',	W416.71, W416.71, NW73.7', P7.87', NE NE44.72',	TAX DISTRICT PAR	-010112 CEL NUMBER	05/06 CARD OF CARD	N:9-063.	
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Appendix H

Material Safety Data Sheets (MSDS)

Appendix H

Material Safety Data Sheets (MSDS)

MATERIAL SAFETY DATA SHEET

N/A = NOT APPLICABLE CMP=COMPLETE (PREPARED ACCORDING TO 29 CFR 1910. REVISION DATE: 1200) SECTION 1 - PRODUCT IDENTIFICATION PRODUCT NAME PRODUCT NUMBER: DRAIN FREE K44 HAZARDOUS MATERIALS PRODUCT TYPE. LIQUID DRAIN OPENER IDENTIFICATION SYSTEM SUPPLIERS NAME: KAYLINE CO. PHONE NUMBER: HEALTH SUPPLIERS ADDRESS P.O. BOX 603207 (216) 566-9858 OR 1-800 426-5820 CLEVELAND, OHIO 44103 FIRE REACTIVITY D O T. DESCRIPTION. COMPOUND, CLEANING LIQUID, 8, UN1760, PG IL (CONTAINS SODIUM HYDROXIDE) PERSONAL PROTECTION KEY: 0-MIN 1-SLIGHT 2-MOD 3-SERIOUS 4-SEVERE **SECTION 2 - INGREDIENTS** CHEMICAL NAME SODIUM HYDROXIDE CAS - NO. 13100-73-2 01310-58-3 313/CHEM PEL % WT. TWA-TLV CARCINOGEN POTASSIUM HYDROXIDE NO NO NO 5 - 10 2 2 NO 5413-75-2 NO NOTE: INGREDIENTS NOT TOXIC UNDER SECTION 313 OF TITLE III, (SARA) AND 40 CFR PART 373, SECTION 3 - PHYSICAL DATA BOILING POINT (F): 212 SPECIFIC GRAVITY: VAPOR DENSITY (AIR=1): VAPOR PRESSURE (mmhg) EVAP, RATE (H₂0=1) 1.51 20@68F SOLUBILITY IN WATER VOLATILES: COMPLETE APPEARANCE/ODOR RED LIQUID/CHARACTERISTIC SECTION 4 - FIRE AND EXPLOSION DATA FLASH POINT: N/A (TCP) FLAMMABLE LIMITS EXTINGUISHING MEDIA NON FLAMMABLE SPECIAL FIRE FIGHTING PROCEDURES: FIRE, EXPLOSION HAZARDS SECTION 5 - REACTIVITY DATA YTLIBATS: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR INCOMPATIBILITY: STRONG ACIDS HAZARDOUS DECOMPOSITION: NONE KNOWN SECTION 6 - STORAGE AND HANDLING KEEP OUT OF REACH OF CHILDREN. FOR SALE TO, USE & STORAGE BY TRAINED PERSONS ONLY. SECTION 7 - HEALTH HAZARD DATA EYES. MAY CAUSE SEVERE EYE TRITATION. PROLONGED CONTACT MAY MAY CAUSE PERVENCE EYE BRAITATION. PROLONGED CONTACT MAY CAUSE PERMANENT EYE DAMAGE.

MAY CAUSE SEVERE SKON BRITATION. PROLONGED CONTACT MAY CAUSE BURNS, REDNESS.

MAY BE BRITATING TO MUCOUS MEMBRANES IN NOSE, THROAT, EYES: FLUSH WITH LARGE AMOUNTS OF WATER. CONSULT PHYSICIAN. SKIN: SKIN: FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHES, SEEK MEDICAL ATTENTION INHALATIO INHALATION LUNGS, CHOKING, COUCHING, HEADACHE MAY OCCUR.
MAY CAUSE BRITATION TO THE INTESTINE, MOUTH, THROAT, & SEEK FRESH AIR, OXYGEN IF NECESSARY INGESTION INGESTION: DO NOT INDUCE VOMITING OR GIVE ANY THING BY MOUTH. IMMEDIATELY SEEK MEDICAL ATTENTION. ESOPHAGUS. VOMITING AND DIARRHEA EXPECTED WITH LARGE SECTION 8 - SPECIAL PROTECTION DATA RESPIRATORY PROTECTION: ADEQUATE VENTILATION VENTILATION: AS REQUIRED TO MAINTAIN TLV. PROTECTIVE GLOVES: RUBBER GLOVES RECOMMENDED. EYE PROTECTION SAFETY GLASSES RECOMMENDED. SECTION 9 - SPILL AND LEAK PROCEDURES STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:: MOP OR ABSORB FOR DISPOSAL WASTE DISPOSAL METHOD SEWER OR INCINERATE WITH LOCAL APPROVAL

USE BY PERSONS WHO HAVE OR SHOULD OBTAIN PROFESSIONAL KNOWLEDGE AND EXPERIENCE IN THE SUBJECTS DISCUSSED, AND IS PRESENTED ONLY FOR YOUR EVALUATION OF THE SUITABILITY OF THIS PRODUCT FOR YOUR USE, AND FOR COMPLIANCE WITH FEDERAL AND STATE REGULATIONS. THE MANUFACTURER MAKES NO WARRANTY, EXPRESS OR IMPLIED, AND DISCLAIMS ALL LIABILITY FOR THE ACCURACY, COMPLETENESS, AND RELIABILITY OF ANY INFORMATION CONT : "3D HEREIN."

-AIM001368

CLEAN ACROSS AMERICA AND THROUGHOUT THE WORLD™ ® 1-877-I-BUY-ZEP (1-877-428-9937)

ZEP MANUFACTURING COMPANY P.O. BOX 2015 ATLANTA, GEORGIA 30301

SOLD TO:

(34L) MICHIGAN MEADOWS TZ NADIHJIM W DD&E INDIANAPOLIS IN 46222

MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

ISSUE DATE: 02/04/93 **SUPERSEDES:** 04/23/90

Date printed: 04/12/00

HIT MAN Prod No:

2099

Insecticide - Residual

SECTION I -EMERGENCY CONTACTS BETWEEN 8:00 AM - 5:00 PM (EST)

TELEPHONE: (404) 352-1680 MEDICAL EMERGENCY: (770) 439-4200

NON OFFICE HOURS, WEEKENDS

(770) 432-2873 (770) 424-4789

AND HOLIDAYS, PLEASE CALL LOCAL POISON CONTROL

(770) 424-2048 (770) 455-8160

(770) 552-8836

TRANSPORTATION EMERGENCY:
(770) 922-0923
CHEMTREC:
(800) 424-9300
DISTRICT OF COLUMBIA:
(202) 483-7616
ALL CA

TOLL FREE-CALLS RECORDED

ALL CALLS RECORDED.

NA0171167

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					L
DESIGNATIONS	SECTION II - HAZARDOUS IN	GREDIENTS	(PPM)	EFFECTS (SEE NOTICE)	% IN PROD.
** ISOPROPYL ALCOHOL ** ipa; dimethylca 67-63-0; RTECS# NT8050000; OSHA PEL-4 STEL-500 PPM	•		400	IRR FBL	< 5
CHLORPYRIFOS * o.o-diethyl o-(3,5,6-tr phosphoricthioic acid, ester; CAS# 2921-88- TF6300000; OSHA PEL/ACGIH TLV- 0.2 MC	ichloro-2- pyriolyl) 2: ATECS# 3/M3		N/D	TOX IRR	< 1
	SECTION III - HEALTH HAZARD D				
SPECIAL NOTE: MSDS data pertains to the would not be expected under recommended are practiced.	product as dispensed from the container, conditions of use (diluted) so long as pres	Adverse health effects cribed safety precautions			
ACUTE EFFECTS OF OVEREXPOSURE: This product contains a cholinesterase inhibit headache, anxiety, dizziness, weakness, visu ciousness.	or. Ingestion of toxic doses will produce s ial disturbances, tongue and eyelid tremoi	symptoms within one to eight hours. S rs, nausea, vomiting, respiratory diffic	Symptoms include	e s or	
ant. Eye contact may produce stinging so and upper respiratory tract. Accumulation overexposure can result in mild narcotic effect CHRONIC FEECTS OF OVEREXPOSURE.	g, burning, inflammation, and in extreme c on of harmful quantities of vapor is precede cts, including flushing, headache, dizzines :	ed by severe initation which makes or is, and nausea.	rerexposure unlik	ely.	
Repeated or prolonged, skin contact may pro- prolonged, and repeated contact, which is us Repeated overexposure may produce pancre None of the hazardous ingredients are listed : EST'D PEL/TLV: Not established PRIMAR'	duce some dryness of skin. Unronic effect	ts from alcohol vapors are rare and w ne cases, narcosis, unconsciousness	ould result from s , and death could	severe, i result.	
HMIS CODES: HEALTH 3; FLAM. 3; REAC	F. 0; PERS. PROTECT. B; CHRONIC I	HAZ. YES			
FIRST AID PROCEDURES: SKIN: Immediately flush contaminated skin w EYES: Immediately flush eyes with plenty of t INHALE: Move exposed person to fresh air at INGEST: If swallowed, induce vomiting by giv	ing two glasses of water and sucking linds	Get medical attention immediately. litting upper and lower lids. Get medi artificial respiration. Get medical atten er down throat. Call a physician imme	cal attention at or tion immediately. diately.	nce.	
PROTECTIVE CLOTHING: Wear neoprene, EYE PROTECTION: Wear tight-fitting splash- RESPIRATORY PROTECTION: Keep face av VENTILATION: Provide local exhaust/ventilat	SECTION IV - SPECIAL PROTECTI	oith many and and an area to the dealers of the	ts listed.		
BOILTING BOINT (EV	SECTION V - PHYSICAL DATA 212	CDECIEIC ODANITY.			
BOILING POINT (F): MAPOR PRESSURE(mmHg): MAPOR DENSITY(AIR=1): BOILIBILITY IN WATER: MOC CONTENT (CONCENTRATE): MAPEARANCE AND ODOR: A TRANSLUCE	N/D N/D COMPLETE	SPECIFIC GRAVITY: EVAPORATION RATE (WATEF PH(CONCENTRATE): PH(USE DILUTION OF):	l=1):	1.01 1.0 N/A N/A	
PLASH POINT(F) (METHOD USED): 115 FLAMMABLE-LIMTS: LEL: N/A EXTINGUISHING MEDIA: Carbon dioxide, dr EPECIAL-FIRE:FIGHTING: Wear self-contain	SECTION VI - FETE AND EXPLOSION (TCC) y chemical and foam, and positive force breething appearatus	DNDATA	· ·		
UNUSUAL FIRE HAZARDS: Fire exposed dri	ums snould de ccoled with stream of wate	г.			
STABILITY: Stable	SECTION VII - REACTIVITY DATA	•			
STABILITY: Stable NCOMPATIBEILITY(AVOID): Heat, flame, sp POLYMERIZATION: Will not occur. STAZARDOUS DECOMPOSITION: Carbon di	ark, strong ecids and/or oxidizers. oxide, certion menoxide and toxic/corrosiv	re fumes as oxides of phosphorous.			
TO RECALEN IN CASE MATERIAL	SECTION VIII - SPILL AND LESPOS IS RELEASED OR SPILLED:	AL PROCEDURES		33° e'	
ately eliminate all flame, ignition and is	igh-heat sources. Observe safety precau	tions in sections 4 & 9 during clean-u	o. Absorb spill of Thoroughly flust	n inert	
with water. ###: WASTE DISPOSAL METHOD: Liquids cannot be sent to tendfills unless solid waste at a permitted treatment/storaga/disposed disposed of in a chemics; or industrial waste to disposed of in a chemics; or industrial waste to disposed or in a chemics; or industrial waste to is pent tank-solutions with subsequent disch in your area.	illed. Unesable product and some collecte al facility. In most states hazardous waste andfill. It company effluent is ultimately tre arge to the sewer may be possible. Cons	: ed, spent use-dilutions may require di es in total amounts of 220 lbs, or less ated by a publicly owned treatment w ull local, state and federal agencies fe	sposal as a haza per,month may b orks, neutralizati or proper disposa	rdous e on al method	
in your area. RCRA HAZ, WASTE NOS.: 0001	•	-			

(Continued on Page: 2)

Product No:

SECTION IX - SPECIAL PRECAUTIONS

ITIONS TO BE TAKEN WHEN HANDLING AND STORING: stible! Store and use away from heat, sparks, open flame, or any source of ignition. tightly closed container in a dry area at temps. between 40-120 degrees F.

Keep product away from skin and eyes. Do not breathe spray mists or vapors. Keep away from food and food products. Keep out of the reach of children.

SECTION X - REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: INSECTICIDES, O/T AGRICULTURAL, NO!

NOTE: DOT information applies to larger package sizes of affected products. For some products, DOT may require afternate names and labeling in accordance with packaging group requirements.

DOT HAZARD CLASS:

DOT LABEL/PLACARD:

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 400FR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): XYLENE, 1000#;

CHLORPYROFOS, 1#;

CHLORPYROFOS, 1#:

NOTICE
Thank you for your interest in, and use of, Zep products.
Zep Manufacturing Co. is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Manufacturing is concerned for your health and safety. Zep products can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any Zep product, be sure to read the complete label and the Material Safety Data Sheet.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. 'Empty' containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, thame, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

TERMS AND ABBREVIATIONS LISTED ALPHABETICALLY BY SECTION

SECTION II: HAZARDOUS INGREDIENTS
CAR: Carcinogen - A chemical listed by the National Toxicology
Program (NTP), the International Agency for Research on Cance
(IARC) or OSHA as a definite or possible human cancer causing

(IARC) or CSHA as a centific or possible further a universagent.

CAS #: Chemical Abstract Services Registry Number - A universally accepted numbering system for chemical substances.

CBL: Combustible - At temperatures between 100F and 200F chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

CNS: Central Nervous System depressant which reduces the activity of the brain and spinal cord.

CCR: Corrosive - Causes irreversible injury to living thesure (i.e., burns).

tissue (e.g. burns). DESIGNATIONS: Chemical and common names of hazardous

ingredients. EIR: Eye Irritant Only - Causes reversible reddening and/or inflammation of eve tissues.

EGR: Eye Irritant Only - Causes reversible reddening and/or inflammation of eye tissues.
EXPOSURE LIMITS: The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLVs, and OSHA PELS (TWA, STEL and ceiling limits).

ACGIH: American Conference of Governmental Industrial Hydionists.

Comparison of the working exposure. Cocupational Safety and Heath Administration Peter Premissible Exposure Limit - A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week. PPM: Parts per million - unit of measure for exposure limits. (S) SKIN: Sin contact with substance can contribute to overall exposure.

(S) SKIN: Skin contact with substance can contribute to overall exposure Limit - Maximum concentration for a continuous 15-minute exposure Limit - Maximum concentration for a continuous 15-minute exposure period.

TLV: Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week.

BL: Flammable - At temperatures under 100F, chemical gives of NIOSH: National Institute for Occupational Salety and Health

enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS: Chemical substances determined to be potential health or physical hazards based on the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

HTX: Highly toxic - the probable lethal dose for a 70kg (150 lb.) man and may be approximated as less than 6 teaspoons (2 tablescoons).

interpretable of the control of the

NA: Not Department of the Product.
N/D: Not Determined - Insufficient information to make a determination for this item.
RTECS#: Registry of Toxic Effects of Chemical Substances - an unreviewed listing of published toxicology data on chemical

substances:
SARA: Superfund Amendment and Reauthorization Act - Section
313 designates chemicals for possible reporting for the Toxics
Release Inventory.
SEN: Sensitizer - Causes allergic reaction after repeated

exposure.

TOX: Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

(rev. 1/98)

SECTION III: HEALTH HAZARD DATA
ACUTE EFFECT: An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.
CHRONIC EFFECT: Adverse effects that are most likely to occur from repeated exposure over a long period of time.
EST D PELTILV: This estimated, time-weighted average, exposure limit, developed by using a formula provided by the AGGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.
HMIS CODES: Hazardous Material Identification System - a rating system developed by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas.

(Health/Flammability/Reactivity) ranging from a low of zero to a high of 4. The presence of a chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective equipment.

PRIMARY ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a generalized-systemic or specific-organ toxic effect.

ING: Ingestion - A primary route of exposure through breathing of vapors.

breathing of vapors.

SKIN: A primary route of exposure through contact with

SECTION V: PHYSICAL DATA

EVAPORATION RATE: Refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water). PH; A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline pH = 14) VOC CONTENT: The percentage or amount in pounds per gallon of the product that is regulated as a Volatile Organic Compound under the Clean Air Act of 1990 and various state jurisdictions.

SOLUBILITY IN WATER: A description of the ability of the product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION: Breakdown products expected to be
produced upon product decomposition by extreme heat or fire.

INCOMPATIBILITY: Material contact by extreme heat and the
conditions to evoid to prevent hazardous reactions.

POLYMERIZATION: Indicates the tendency of the product's molecules to combine with themselves in a chemical reaction, releasing excess pressure and heat. STABILITY: Indicates the susceptibility of the product to spontaneously and dangerously decompose.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES RCRA WASTE NOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

SECTION X: TRANSPORTATION DATA

SECTION X: TRANSPORTATION DATA
CWA: Clean Water At-Federal Law which regulates chemical
releases to bodies of water.
RC: Reportable Quantity - The amount of the specific ingredient
that, when spilled to the ground and can enter a storm sewer or
natural watershed, must be reported to the National Response
Center, and other regulatory agencies.
TSCA: Toxic Substances Control Act - a federal law requiring
all commercial chemical substances to appear on an inventory
maintained by the EPA.

DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other menufacturers in combination with out products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the products label and Material Safety Data Sheet.

(rev. 1/98)

MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION



ZEP MANUFACTURING COMPANY P.O. BOX 2015 ATLANTA, GEORGIA 30301 SOLD TO:

(34L) MICHIGAN APTS. 10955 3800 W. MICHIGAN ST. INDIANAPOLIS IN 46222 ISSUE DATE: 12/04/91 SUPERSEDES: 01/31/91 Date printed: 07/10/99 ZEP STOVE AND OVEN CLEANER
Prod No: 0271 Aerosol Stove and Oven Cleaner

SECTION I -EMERGENCY CONTACTS

(770) 455-8160 (770) 552-836 TRANSPORTATION EMERGENCY: (770) 922-0923 CHEMTREC: (800) 424-9300 DISTRICT OF COLUMBIA: (202) 483-7616

TOLL FREE-CALLS RECORDED

NA0364009

		(202) 483-7010	ALL CALLS	RECORDED	j
DESIGNATIONS	SECTION II - HAZARDOUS INGR	LEDIENTS	(PPM)	EFFECTS (SEE NOTICE)	% IN
POTASSIUM HYDROXIDE ** ca RTECS# TT2102000; OSHA/ACGI	ustic potash; lye; CAS# 1310-58-3; H CEILING LIMIT-2MG/M3		N/D	TOX COR	PROD.
Cellosolve; CAS# 111-76-2; RTECS	ustic potash; lye; CAS# 1310-58-3; H CEILING LIMIT-2MG/M3 UTYL ETHER ** 2-butoxyethanol; butyl I# KJ8575000; OSHA PEL (SKIN)-		25	TOX IRR CBL	< 5
"MONOETHANOLAMINE" 2-am RTECS# KJ5775000; OSHA PEL-3	inoethanol; MEA; CAS# 141- 43-5; PPM; OSHA/ACGIH STEL-6 PPM		3	TOX COR CBL	< 5
[PROPANE: CAS# 74-98-6; RTECS 106-97-8; RTECS# EJ4200000] ** (@ IDENTIFIES CHEMICALS LISTE	S# KJ8575000; OSHA PEL (SKIN). inoethanol; MEA; CAS# 141- 43-5; PPM; OSHA/ACGIH STEL-6 PPM 75-28-5; RTECS# 724300000] & ## TX2775000] & [n-BUTANE; CAS# OSHA PEL-1000 ppm D UNDER SARA-SECTION 313 FOR RELEASE REP SECTION III - HEALTH HAZARD DAT		800	FBL	< 5
TO THE PROPERTY OF THE PROPERT	SECTION III - HEALTH HAZARD DAT	ORTING.			
Would not be expected under recom-	ns to the product as dispensed from the container. Adv	rerse health effects			
FEFECTS OF OVEREXPOSE IVE on contact. Overexposure Ive on contact. Overexposure Ive overexposure Ive of the overexposure Ive	SURE: will produce tissue destruction particularly on mucous indness unless immediately flushed. Concentrated sols sides as contact continues: inhalation of mists may prove demanage of the gastrointestinal tract. ce chemical pneumonia. OSURE: skin can produce chronic dermatitis characterized by remation, chronic respiratory tract irritation or lung dama reliver, kidney, or red blood cell damage. Relevance of nestablished, re listed as carcinogens by IARC, NTP, & OSHA PRIMARY ROUTES OF ENTRY: Inh, Skin.	membranes of eyes, mouth, and utices may produce immediate s iduce severe hasal and respirate	d respiratory tract. I kin damage. Dilute ory irritation or perm	Eye contact solutions may nament	•
Repeated or prolonged exposure of a mists may lead to chronic eye inflam Animal studies indicate a potential to these effects in humans has not been None of the hazardous ingredients a EST'D PEL/TLV: Not established	skin can produce chronic dermatitis characterized by n mation, chronic respiratory tract irritation or lung dama r liver, kidney, or red blood cell damage. Relevance of n established, re listed as carcinogens by IARC, NTP, & OSHA PRIMARY ROUTES OF ENTRY: Inh, Skin.	edness, scaling, and blistering. F ge. these studies or exposure level	Repeated exposure s which might produ	to spray uce	
	: REACT. 0; PERS. PROTECT. C ; CHRONIC HAZ				
FIRST AID PROCEDURES: SKIN: Immediately flush contaminate EYES: Immediately flush eyes with p INHALE: Move exposed person to fre INGEST: If this product is swallowed.	d skin with plenty of water for at least 15 minutes. Get lenty of water for at least 15 minutes, occasionally lifting sha air. If irritation persists, get medical attention promy do not induce vomiting. If victim is conscious give ple	medical attention immediately, and upper and lower lids. Get medity.	dical attention at one	ce.	
PROTECTIVE CLOTHING: Wear nitr EYE PROTECTION: Wear splash-pro HESPIRATORY PROTECTION: Avoi VENTILATION: Ventilation should be	SECTION IV - SPECIAL PROTECTION ille gloves or use gloves with demonstrated resistance pot safety oggdles especially if contact lenses are worr dinhalation of spray mists, and on ot direct spray tow equal to outdoors. Use exhaust fans and/or exhaust h	INFORMATION to the ingredients in this product vard people, lood in enclosed spaces	t.		
BOILING POINT (F):	SECTION V - PHYSICAL DATA				
VAPOR PRESSURE(mmHg):	~ 220 N/A	SPECIFIC GRAVITY: EVAPORATION RATE (WATE)	B-11·	1.43	
SOLUBILITY IN WATER: VOC CONTENT (CONCENTRATE): APPEARANCE AND OCOD: A THICK	SECTION V - PHYSICAL DATA - 220 N/A N/A COMPLETE 7.5% C, GREYISH-WHITE LIQUID WITH A "BUTYL" ODOR	EVAPORATION RATE (WATE) PH(CONCENTRATE): PH(USE DILUTION OF):	ri≆ i <i>j.</i>	0.8 13.0 N/A	
TO CATANOC AND ODON, A THICK	SECTION VI - FIRE AND EXPLOSION D				
FLASH POINT(C) (METHOD USED): FLAMMABLE LIMITS: LEL: N/A UE EXTINGUISHING MEDIA: Water SPECIAL EIDE ECHTAI: WATER	SECTION VI - FIRE AND EXPLOSION D Nonflammable (CSMA) L: N/A ter onto intact containers to prevent bursting. er may burst if heated above 120F.	AIA			
UNUSUAL FIRE HAZARDS: Containe					
NCOMPATIBLILITY (AVOID): Heat, s POLYMERIZATION: Will not occur. RDOUS DECOMPOSITION: Ca	SECTION VII - REACTIVITY DATA unlight, strong oxidizers, and acids. urbon dioxide, carbon monoxide, & oxides of nitrogen				
	Concerns and a contract of the				
TEPS TO BE TAKEN IN CASE MAT bserve safety precautions in sections bsorbent material (eg Zep-O-Zorb), a	SECTION VIII - SPILL AND DISPOSAL P ERIAL IS RELEASED OR SPILLED: s 4 & 9 during spill clean-up. Large spills are unlikely on nd placed in a suitable container for disposal. Wash ar	ROCEDURES tue to packaging. Spill may be a	absorbed on an ine	rt	
nin water. VASTE DISPOSAL METHOD: Voduct is consumed in use. Do not control of the consumed of the control of t	rush, puncture or incinerate spent containers. Large n tal hazardous waste quantities less than 220 lbs per m il agencies for the proper disposal method in your area 22	umbers of aerosol containers m nonth may allow disposal in a ch	ay require handling	essa waste	
	(Continued on Page: 2)		<u>,,</u>		
	•		·		

Product No:

0271

SECTION IX - SPECIAL PRECAUTIONS

VTIONS TO BE TAKEN WHEN HANDLING AND STORING: tore at temperatures above 120F (39C) or in direct sunlight. Do not puncture or incinerate container, roduct away from skin and eyes.

Keep away from food and food products. Do not breathe spray mists or vapors. Keep out of the reach of children.

SECTION X - REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: CONSUMER COMMODITY.

NOTE: DOT information applies to larger package sizes of affected products. For some products, DOT may require alternate names and labeling in accordance with packaging group requirements.

DOT PACKING GROUP: N/A

DOT I.D. NUMBER: N/A

DOT LABEL/PLACARD: ORM-D

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): POTASSIUM HYDROXIDE

Date Last Reviewed by Compliance Services: 01/18/99



NOTICE
Thank you for your interest in, and use of, Zep products.
Zep Manufacturing Co. is pleased to be of service to you by
supplying this Material Safety Data Sheet for your files. Zep
Manufacturing is concerned for your health and safety. Zep
products can be used safely with proper protective equipment
and proper handling practices consistent with label instructions
and the MSDS. Before using any Zep product, be sure to read
the complete label and the Material Safety Data Sheet.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of 'emptied' containers. 'Empty' containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurice, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, or other sources of ignition: they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by tribe rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

TERMS AND ABBREVIATIONS LISTED ALPHABETICALLY BY SECTION

SECTION II: HAZARDOUS INGREDIENTS

CAH: Carcinogen - A chemical listed by the National Toxicology
Program (NTP), the International Agency for Research on Cance
(IARC) or OSHA as a definite or possible human cancer causing
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(IARLO) of OSIA as a domine in present for a universagent.

CAS #: Chemical Abstract Services Registry Number - A universally accepted numbering system for chemical substances.

CBL: Combustible - At temperatures between 100F and 200F chemical gives oft enough vapor to ignife if a source of ignition is present as tested with a closed cup tester.

CNS: Central Nervous System depressant which reduces the activity of the brain and spinal cord.

COR: Corrosive - Causes irreversible injury to living thesus (ac. b.turns).

tissue (e.g. burns). DESIGNATIONS: Chemical and common names of hazardous

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EIR: Eye irritant Only - Causes reversible reddening and/or inflammation of eye tissues.

EXPOSURE LIMITS: The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLVs, and OSHA PELs (TWA, STEL and ceiling limits).

ACGIH: American Conference of Governmental Industrial Hydienists.

ACGIH: American Conference of Governmental Integrals.

C: The concentration that should not be exceeded in place during any part of the working exposure.

Occupational Safety and Health Administration

Per Permissible Exposure Limit - A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.

PPM: Parts per million - unit of measure for exposure limits.

(S) SKIN: Skin contact with substance can contribute to exercil exposure.

overall exposure. STEL: Short Term Exposure Limit - Maximum concentration

for a continuous 15-minute exposure period.

TLV: Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week.

BL: Flammable - At temperatures under 100F, chemical gives off NIOSH: National Institute for Occupational Safety and Health

enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS: Chemical substances determined to be potential heath or physical hazards based on the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

HTX: Highly toxic - the probable lethal dose for a 70kg (150 b.) man and may be approximated as less than 6 teaspoons (2 tablespoons).

IRR: (ritant - Causes reversible effects in living tissues (e.g. inflammation) - primarily skin and eyes.

(e.g. inflammation) - primarily skin and eyes. N/A: Not Applicable - Category is not appropriate for this

product. N/D: Not Determined - Insufficient information to make a

Additional and the state of the

unreviewed listing of published toxicology data on chemical substances.

SARA: Superfund Amendment and Reauthorization Act - Section 313 designates chemicals for possible reporting for the Toxics Release Inventory.

SEN: Sensitizer - Causes allergic reaction after repeated

exposure.

TOX: Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

(rev. 1/98)

SECTION III: HEALTH HAZARD DATA
ACUTE EFFECT: An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.
CHRONIC EFFECT: Adverse effects that are most likely to occur from repeated exposure over a long period of time.
EST D PEL/TLV: This estimated, imme-weighted average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.
HMIS CODES: Hazardous Material Identification System - a rating system developed by the National Paint and Coating Association for estimating the hazard potential of a .hemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Healtin/Fammability/Reactivity) ranging from a low of zero to a high of 4. The presence of a chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective equipment. PRIMARY ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a generalized-systemic or specific-organ toxic effect.
ING: Ingestion - A primary route of exposure through breathing of vapors.
SKIN: A primary route of exposure through contact with the skin.

SECTION IV: SPECIAL PROTECTION INFORMATION

SECTION V: PHYSICAL DATA

EVAPORATION RATE: Refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water). PH: A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline pH = 14) VOC CONTENT: The percentage or amount in pounds per gallon of the product that is regulated as a Volatile Organic Compound under the Clean Air Act of 1990 and various state jurisdictions.

jurisdictions.
SOLUBILITY IN WATER: A description of the ability of the product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION: Breakdown products expected to be produced upon product decomposition by extreme heat or fire. INCOMPATIBILITY: Material contact by extreme heat and the conditions to avoid to prevent heatrdous reactions. INCOMPATIBILITY Material contact by exterior heat and the conditions to avoid to prevent hazardous reactions. POLYMERIZATION: Indicates the tendency of the product's molecules to combine with themselves in a chemical reaction, releasing excess pressure and heat. STABILITY: Indicates the susceptibility of the product to spontaneously and dangerously decompose.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES RCRA WASTE NOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container

SECTION X: TRANSPORTATION DATA CWA: Clean Water Act-Federal Law which regul ederal Law which regulates chemical

CWA: Clean Water Act- Federal Law which regulates chemical releases to bodies of water. RC: Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies. TSCA: Toxic Substances Control Act - a federal law requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with out products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the fallure to follow instructions, warnings, and advisories in the products label and Material Safety Data Sheet.

(rev. 1/98)

K112 KWIK SEAL



P.O. Box 603207 • Cleveland, Ohio 44103 216-566-9858 • Fax 216-566-1228 1-800-426-5820

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910-1200. Standard must be consulted for specific requirements.

PRODUCT NAME:

RAPID SEAL

Product Number: 0725

Date Prepared:

April 23, 1998

Health Information Phone, and Emergency Phone: 8:00 a.m. to 4:30 p.m. (Eastern Time) 216-341-2000 Emergencies Only, after 4:30 p.m. (Eastern Time)

Technical Information Phone:

8:00 a.m. to 4:30 p.m. (Eastern Time) 216-341-2000

PRODUCT IDENTIFICATION

Chemical Name: Bentonite Clay (100%)

Chemical Family: Natural Mineral, Montmorillonite CAS #: 1302-78-9 Bentonite is on the TSCA inventory.

Formula: Naturally occurring hydrated aluminosilicate of sodium, calcium, magnesium, and iron

NFPA/HMIS: Health - 1, Fire - 0, Reactivity - 0, Specific Hazard - See Section V

DOT Class: Not Regulated

SECTION I H	AZARDOUS INGREDIE	ENTS/IDENTITY II	NFORMATION	
Hazardous Components (Specific Chemical Identity: Comm	ion Name(s)) OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Crystalline) Quartz CAS# 14 (naturally occurring contami		-	*	1-2%
Respirable Crystalline Quart present (TWA proposed (TW	0.1mg/m ³	0.1mg/m [,] TWA 50ug/m [,] TWA	NIOSH 50ug/m³ TWA —	<1-2%
Nuisance Dust Respirable Total Dust	15mg/m³	10mg/m²		

*Warning:

This clay product contains a small amount of crystalline silica (quartz) which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded. IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 68, 1997) concludes that crystalline silica (quartz) is carcinogenic to humans in the form of quartz. IARC classification 1.

The small quantities of crystalline silica (quartz) found in this product are, under normal conditions, naturally coated with an unremovable layer of amorphous silica and/or bentonite clay. IARC (Vol. 68, 1997, pp 191-192) states that crystalline silica (quartz) can differ in toxicity depending on the minerals with which it is combined, citing studies in IARV (Vol. 42,1987, p 86) which states that the toxic effect of crystalline silica (quartz) is reduced by the "protective effect....due mainly to clay minerals....".

National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter air (0.5 mg/mi) as determined by a full shift sample up to 10 hour working day, 40 hours per week. See: 1974 NIOSH criteria for a recommended Standard for Occupational Exposure to Crystalline Silica should be consulted for more detailed information.

PEL means OSHA Permissible Exposure Limit.

TLV means American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value. TWA means 8 hour time weighted average.

Note: The Permissible Exposure Limits (REL) reported above are the pre-1989 limits that were reinstated by OSHA June 30, 1993 following a decision by the United States Circuit Court of Appeals for the 11th Circuit. These PELs are now being enforced by Federal OSHA. More restrictive exposure limits may be enforced by some other jurisdictions.

SECTION II	PHYSICAL/CHEMICA	L CHARACTERISTICS		
Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR =1) Solubility in Water Appearance and Odor	 Not Applicable Not Applicable Not Applicable Negligible Pale grey to buff powder 	Specific Gravity (H ₁ O=1) Melting Point Evaporation Rate (Butyl Acetute=1) or granules, odorless	- 2.5 - Not Applicable - Not Applicable	
SECTION III	FIRE AND EXPLOSI	ON HAZARD DATA		
Flash Point (Method Used) Flammable Limits Extinguishing Media Special Fire Fighting Procedures Unusual Fire and Explosion Hazards	- Not Applicable - Not Applicable - Not Applicable - Inorganic Miner - Not Applicable	LEL UE al/Non-Flammable	L	
SECTION IV	REACTIVIT	TY DATA		
Stability: Stable -x		Conditions to Avoid - None Kno	wn	
Incompatibility (Materials to Avoid): Hazardous Decomposition or By-proc		•		
Hazardous Polymerization:	Will Not Occur - X	Conditions to Avoid - None Kno	wn	

SECTION V HEALTH HAZARD DATA

This product is chemically inert, non-combustible mineral. A single exposure will not result in serious adverse effects. Excessive occupational, uncontrolled inhalation of dust may cause lung disease, silicosis, with symptoms of shortness of breath and reduced pulmonary function.

Route(s) of Entry: Inhalation? Yes
Health Hazards (Acute and Chronic)

May cause delayed respiratory disease if dust is inhaled over a prolonged period of time.

Inhalation: Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may cause irritation of the nose, throat and respiratory passages. Inhalation of dust may have the following serious chronic health effects:

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer has determined that crystalline silica inhaled in the form quartz or crystobalite from occupational sources is carcinogenic to humans (Group 1-carcinogenic to humans). Refer to IARC Monograph 6.8, Silica, some Silicates and Organic Fibers (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program classifies respirable crystalline silica as "reasonable anticipated to be a carcinogen". For further information see: "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratoroy and Critical Care Medicine, Volume 155, page 761-765, 1997.

Other Data With Possible Relevance to Human Health: The small quantities of constraints of constraints of constraints and conditions, naturally coated with an unremovable layer of amorphous silica and visualline (quartz) found in this product are, under that crystalline silica (quartz) can differ in toxicity depending on the minerals with white clay. IARC (Vol. 68, 1997, pp 191-192) states that the toxic effect of crystalline silica (quartz) is reduced it is combined, citing studies in IARC (Vol. 42, and the constraints of constraints affect....due mainly to clay that crystalline silica (quartz) can differ in loxicity depending on the minicial control of the states that the toxic effect of crystalline silica (quartz) is reduced by the "protective effect....due mainly to clay

No adverse effects expected.

Eye Contact:

Contact may cause mechanical irritation and possible injury.

Ingestion:

No adverse effects expected for normal, incidental ingestion.

Chronic Health Effects: See "Inhalation" subsection above with respect to silicosis, cancer status and other data with possible relevance

signs and Symptoms of Exposure: There are generally no signs or symptoms of exposure to crystalline silica (quartz). See "Inhalation"

Medical Conditions Generally Aggravated by Exposure: Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposured to crystalline silica (quartz) dust.

Emergency and First Aid Procedures:

Eye Contact: Flush the eyes immediately with large amounts of water, lifting the upper and lower lids occasionally. If irritation persists or for imbedded foreign body, get immediate medical attention.

Gross Inhalation: Remove to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, have

Skin Contact: No first aid should be needed since this product does not affect the skin. Wash exposed skin with soap and water

Ingestion: If large amounts are swallowed, get immediate medical attention.

SECTION VI

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water, the product will become slippery when wet.

Waste Disposal Method: Follow federal, state and local regulations for solid waste.

Handling and Storing Precautions: Do not breath dust. Use normal precautions against bag breakage or spills of bulk material. Avoid creation of respirable dust. Use good housekeeping in storage and use areas to prevent accumulation of dust in work areas. Use adequate ventilation and dust collection. Maintain and use proper, clean respiratory equipment. Launder clothing that has become dusty. Empty containers (bags, bulk containers, storage tanks, etc.) Retaining silica residue must be handled in accordance with the provisions of this Material Safety Data Sheet. Warn and train employees in accordance with state and federal regulations.

Other Precautions: Slippery when wet.

WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS/USERS IN CASE OF RESALES) BY POSTING AND OTHER MEANS OF THE HAZARDS AND OSHA PRECAUTIONS TO BE USED. PROVIDE TRAINING FOR YOUR EMPLOYEES

SECTION VII

CONTROL MEASURES

Respiratory Protection: Use appropriate respiratory protection for respirable particulate based on consideration of airborne workplace concentration and duration of exposure arising from intended end use. Refer to the most recent standards of ANSI (288.2) OSHA (29 CFR 1910.134), MSHA (30 CFR Parts 56 and 57) and NIOSH Respirator Decision Logic.

Ventilation: Use local exhaust as required to maintain exposures below applicable occupational exposure limits (see Section I). See also ACGIH "Industrial Ventilation - A Manual for Recommended Practice", (current edition).

Protective Gloves: Recommended

Eye Protection: Safety glasses or goggles recommended.

Other Protective Clothing or Equipment: As appropriate for work environment. Dusty clothing should be laundered before reuse.

Transportation Data:

U.S. DOT Hazard Classification

Proper Shipping Name:

Not regulated

Technical Name: UN Number:

N/A N/A

Hazard Class/Packing Group:

N/A None

Labels Required: DOT Packaging Requirements:

N/A

Exceptions:

N/A

SECTION VIII

OTHER REGULATORY INFORMATION

SARA 311/312:

Hazard Categories for SARA Section 311/312 reporting: Chronic Health

SARA 313:

This product contains the following chemicals subject to annual reporting requirements under the SARA Section

313 (40 CFR 372):

None

CERCLA Section 103 Reportable Quantity:

California Proposition 65: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE HARM: This product contains Crystalline Silica (Respirable); however, the user should note that the small quantities of crystalline silica (quartz) found in this product are, under normal conditions, naturally coated with an unremovable layer of amorphous silica and/or bentonite clay. IARC(Vol. 68,1997, pp 191-192) states that crystalline silica (quartz) can differ in toxicity depending on the minerals with which it is combined. Citing studies in IARC (Vol. 42, 1987 p 86) which states that the toxic effect of crystalline silica (quartz) is reduced by the "protective effect....due mainly to clay minerals....".

Toxic Substances Control Act: All of the components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements.

European Inventory of Commercial Chemical Substances: All of the components of this products are listed on the EINECS Inventory or exempt from notification requirements. (The EINECS number for Quartz: 231-545-5).

Canadian Environmental Protection Act: All of the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

Japan MITI:

All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

Australian Inventory of Chemical Substances: All of the components of this product are listed on the AICS Inventory or exempt from notification requirements.

Canadian WHMIS Classification: Class D, Division 2, Subdivision A (Very Toxic Material Causing Other Toxic Effects).

SECTION IX

OTHER INFORMATION

European Community Labeling Classification:

Harmful (Xn)

European Community Risk and Safety Phrases:

R40, R48, S22

NPPA Hazard Rating:

Health: 1 Fire: 0

Reactivity: 0

HMIS Hazard Rating:

Health: *

Fire: 0

Reactivity: 0

*Warning - Chronic health effect possible - inhalation of silica dust may cause lung injury/disease (silicosis). Take appropriate measures to avoid breathing dust. See Section I.

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, Aluminum Coating Manufacturers, Inc. cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.

MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION



ZEP MANUFACTURING COMPANY P.O. BOX 2015 ATLANTA, GEORGIA 30301 SOLD TO:

(**34b**) MICHIGAN MEADOWS TZ NADIHOIM W DD&E SSSSH NI ZIJOPANAIGNI ISSUE DATE: 02/22/00 Date printed: 05/05/00 SUPERSEDES: AIR FATR CINNAMON (CONQUER)
Prod No: F177 Liquid Odor Counteractant

SECTION I -EMERGENCY CONTACTS TELEPHOINE: (404) 352-1680 MEDICAL EMERGENCY: (770) 439-4200 BETWEEN 8:00 AM - 5:00 PM (EST) NON OFFICE HOURS, WEEKENDS AND HOLIDAYS, PLEASE CALL (770) 432-2873 (770) 432-2873 AND HOL (770) 424-4789 LOCAL (770) 425-8160 (770) 552-8836 TRANSPORTATION EMERGENCY: (770) 922-0923 CHEMTREC: (800) 424-9300 TOLL FI DISTRICT OF COLUMBIA: (202) 483-7616 ALL CA LOCAL POISON CONTROL TOLL FREE-CALLS RECORDED ALL CALLS RECORDED

A0171167	SECTION II - HAZARDOUS INGE	REDIENTS	~~~ ^	EFFECTS	% IN
			(PPM)	(SEE NOTICE)	PROD.
ESIGNATIONS ISOPROPYL ALCOHOL ** ipa: dimethy -63-0; RTECS# NT8050000; OSHA PE TEL-500 PPM NONYLPHENOXYPOLY(ETHYLENEO bly(oxy-1,2-ethanediyl), alpha-(nonylphe AS# 9016-45-9; RTECS# MD0905000; ((carbinol: 2-propanol: CAS#		400	IAA FBL	< 10
ISOPROPYL ALCOHOL "IPA; differry -63-0: RTECS# NT8050000; OSHA PE	L-400 PPM; OSHA/ACGIH		N/D	EIR	< 10
TEL-500 PPM	XY)ETHANOL ** npe;		NO	Lii i	< 10
bly(oxy-1,2-ethanediyl), alpha-(nonylphe	nyl)-omega- hydroxy; OSHA PELN/D				
45# 9016-45-9; HTECS# MD0905000;	301741 00				
·	SECTION III - HEALTH HAZARD DA	.TA dverse health effects			
ECIAL NOTE: MSDS data pertains to t	SECTION III - HEALTH HAZARU DA he product as dispensed from the container. As ed conditions of use (diluted) so long as prescr	ibed safety precautions			
o practiced			a. Evaneure may be	irritating to	
UTE EFFECTS OF OVEREXPUSUALE irritant. Eve contact may produce sting	: ging, burning, inflammation, and in extreme ca ation of harmful quantities of vapor is preceder affects, including flushing, headache, dizziness	ses may produce comeandanaged by severe initation which makes	s overexposure unli	cely.	
d upper respiratory tract. Accumul	ation of narmid dualities at a dizziness affects, including flushing, headache, dizziness	, and nausea.			
respiratory disorders or skin dise	ases may be aggravated by exposure.	- t alcohol vanors are rare and	d would result from	severe,	•
epeated or prolonged, skin contact may	produce some dryness of skin. Chronic enects	le cases, narcosis, unconsciousne	ess, and death coul	d result.	
olonged, and repeated contact, which is	inogens by IARC, NTP, or OSHA.				
T'D PEL/TLV: Not established PRIN	ging, burning, inflammation, and in extreme callation of harmful quantities of vapor is preceded sifects, including flushing, headache, dizziness ases may be aggravated by exposure. IRE: produce some dryness of skin. Chronic effects a usually precluded by irritation, in most extrem inogens by IARC, NTP, or CSHA. ARY ROUTES OF ENTRY: Inh, Skin.	14.7 NO			
MO COMEDINENT HIT HIAM SI DE	AC1.0, 1 2.10.1 1.0				
RST AID PROCEDURES:	ly with soap or a mild detergent. Apply a skin c y of water for at least 15 minutes, occasionally air. If irritation persists, get medical attention pr not induce vomiting. If victim is conscious give	ream with lanolin. Get medical att	ention if irritation pe	rsists.	
KIN: Wash contaminated skin thorough	y of water for at least 15 minutes, occasionally	litting upper and lower lids. Get m	ledical alternion at t	ince.	
HALE: Move exposed person to fresh	not induce vomiting. If victim is conscious give	plenty of water to drink. Get medi	ical attention at onc	8. 	
IGEST: If this product is swallowed; de	SECTION IV - SPECIAL PROTECTI	ON INFORMATION	diante listad		
BOTECTIVE CLOTHING: Wear neopre	SECTION IV - SPECIAL PROTECTI ene, nitrile, or natural rubber gloves or gloves we safety glasses or goggles is strongly recomment shalation of spray mists, and do not direct spray a required.	with proven resistance to the ingre- ided, especially when wearing con	ntact lenses.		
YE PROTECTION: Use of tight-fitting s	afety glasses or goggles is storigly reach sprain a lation of spray mists, and do not direct sprain	y toward people.			
ENTILATION: No special measures are	a required.				_
			TCO_1\:	0.9 1.0	17
OILING POINT (F):	N/D	PHICONCENTRATE):	icn=ij.	5.0)-6.0 }-7.0
APOR DENSITY (AIR=1):	COMPLETE	FH(USE DILUTION OF 1:10	10):	0.0	7-7.0
VOC CONTENT (CONCENTRATE):	SECTION 190 Initial N/D N/D COMPLETE 10.9% 0.88 lb/gl THIN, LT. YELLOW.LIQUID WITH A CINNAM	ION ODOR.			
				·	
AND BOINT(E) (METHOD LISED): 9	(TCC) 12.0 12.0 12.0 13.0 14.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15		•		
FLAMMABLE LIMITS: LEL: 20 UEL	12.0				
SPECIAL FIRE FIGHTING: Product Will	not support combustion (alcohol will flash)	er.			
UNUSUAL FIRE HAZARDS: Fire expos	SECTION VII - REACTIVITY DAT	A			
INCOMPATIBLILITY (AVOID): Heat, op	en flame, spark, and oxidizing agents.				
STABILITY: Stable INCOMPATIBLILITY(AVOID): Heat, op POLYMERIZATION: Will not accur. HAZARDOUS DECOMPOSITION: Car	bon dioxide and carbon monoxide SECTION VIII - SPELL AND DISPO ERIAL IS RELEASED OR SPILLED: n and high-heat sources. Observe safety precedicts up and place residue in a suitable waste of				
THE PROPERTY OF THE PARTY OF TH	SECTION VIII - SPILL AND DISPO	OSAL PROCEDURES		. :	
STEPS TO BE TAKEN IN CASE MATI	ERIAL IS RELEASED OR SPILLED:	autions in sections 4 & 9 during cles	an-up. Absorb spill wer. Thoroughly flu	on inen sh area	
immediately eliminate all tlame, ignition	ick up and place residue in a suitable waste co	ontainer or, it permitted, made to be	,		
vater DISPOSAL METHOD:	i d u hozordo	us waste under RCPA. Unusable li	quid may be absort	ed on an	
d wastes are pot permitted in land	fills. This product is not considered a hazardo	istrial landfill. In some areas disposal	sai by flushing into a nethod in your area.	•	
linert absorbent material (eg. Zep-O-Zo sanitary sewer with plenty of water ma	ifills. This product is not considered a hazardo rb), drummed, and taken to a chemical or indu y be permissible. Consult local, state, and fed SECTION IX - SPECIAL PRECAU	eral agencies for professional			
HCHA HAZ WASTENOS: NA		TIONS			
STATISTICS DISPOSE TRACES	SECTION LX - SPECIAL PRECAU N HANDLING AND STORING:		•	i	
PRECAUTIONS TO BE TAKEN WHE	thems, and any source of to	กาทอก			
"IFIAMMADIE! Store and use array "	heat, sparks, open hame; and any sources F.	•			
Store tightly closed container in a dry	heat, sparks, open flame; and any 300705 area at temps, between 40-120 degrees F. s.		-t-t alonood	i	
Store tightly closed container in a dry tkeep product away from skin and eye to not breathe spray mists or vapors.	SECTION IX - SPECIAL PRECAU N HANDLING AND STORING: heat, sparks, open flame, and any source of ug area at temps, between 40-120 degrees F, s. aminated with substance should be removed p (Continued on Pa	promptly and not reworn until thorou	ghly cleaned.	:	

Product No:

F177

SECTION IX - SPECIAL PRECAUTIONS (continued)



SECTION X - REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: DEODORANTS OR DISINFECTANTS, NOI, O/T MEDICINAL

NOTE: DOT information applies to larger package sizes of affected products. For some products, DOT may require alternate names and labeling in accordance with packaging group requirements.

DOT PACKING GROUP:

DOT I.D. NUMBER: DOT LABEUPLACARD:

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): NONE

NOTICE NOTICE
Thank you for your interest in, and use of, Zep products.
Zep Manufacturing Co. is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Manufacturing is concerned for your health and safety. Zep products can be used safely with proper protective equipment and proper handling practices consistent with tabel instructions and the MSDS. Before using any Zep product, be sure to read the complete label and the Material Safety Data Sheet.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of 'emptied' containers. 'Empty' containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appripriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

TERMS AND ABBREVIATIONS LISTED ALPHABETICALLY BY SECTION

SECTION II: HAZARDOUS INGREDIENTS
CAR! Carcinogen - A chemical listed by the National Toxicology
Program (NTP), the International Agency for Research on Cancer
(IARC) or OSHA as a definite or possible human cancer causing

agent.

CAS #: Chemical Abstract Services Registry Number - A universally accepted numbering system for chemical substances.

CBL: Combusible - At temperatures between 100F and 200F chemical gives off enough vapor to ignife if a source of ignifion is present as tested with a closed cup tester.

CNS: Central Nervous System depressant which reduces the activity of the brain and spinal cord.

COR: Corrosive - Causes Irreversible injury to living itssue (a a thurs).

tissue (e.g. burns). DESIGNATIONS: Chemical and common names of hazardous

DESIGNATIONS: Oriented at the Control of Control of the Control of

Hygienists,
CEILING: The concentration that should not be exceeded in CEILING: The concentration that should not be exceeded in close during any part of the working syposure. Occupational Safety and Health Administration immissible Exposure Limit. - A set of time weighted se exposure values, established by QSHA, for a normal 8-hour day and a 40-hour work week. PPM: Parts per million - unit of measure for exposure limits. (SINI: Skin contact with substance can contribute to overall exposure.

overall exposure.
STEL: Short Term Exposure Limit - Maximum concentration

enough vapon to ignite if a source of ignition is present as tested with a closed cup tester.
HAZARDOUS INGREDIENTS: Chemical substances determined to

HAZAHDOUS INCHEDIEN IS: Chemical substances determined to be potential health or physical hazards based on the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910, 1200
HTX: Highly toxic - the probable lethal dose for a 70kg (150 lb.) man and may be approximated as less than 6 teaspoons (2 toller conce)

tablespoons).
IRR: Irritant - Causes reversible effects in living tissues (e.g. inflammation) - primarily skin and eyes.
N/A: Not Applicable - Category is not appropriate for this

product. N/D: Not Determined - Insufficient information to make a

determination for this item. RTECS#: Registry of Toxic Effects of Chemical Substances - an viewed listing of published toxicology data on chemical

substances.
SARA: Superfund Amendment and Reauthorization Act - Section
313 designates chemicals for possible reporting for the Toxics
Release Inventory.
SEN: Sensitizer - Causes allergic reaction after repeated

exposure. TOX: Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

(rev. 1/98)

SECTION III: HEALTH HAZARD DATA
ACUTE EFFECT: An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.
CHRONIC EFFECT: Adverse effects that are most likely to occur from repeated exposure over a long period of time.
EST D PEUTLY: This estimated, time-weighted average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.

HMIS CODES: Hazardous Material Identification System - a rating system developed by the Nationat Paint and Coating Association Workpacke conditions to heavy air workers.

HMIS CODES: Hazardous Material Identification System - a rating system developed by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/Flammability/Reactivity) ranging from a low of zero to a high of 4. The presence of a chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective equipment. PRIMARY ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a generalized-systemic or specific-organ toxic effect.

ING: Ingestion - A primary route of exposure through swallowing of material INH: Inhalation - A primary route of exposure through breathing of vapors.

SKIN: A primary route of exposure through contact with the skin.

STEL: Short Term Exposure Lmm - Maximum concentration for a continuous 15-minute exposure period.

TLV: Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour/work week.

FBL: Flammable - At temperatures ander 100F, chemical gives of MIOSH: National Institute for Occupational Safety and Health

SECTION V: PHYSICAL DATA
EVAPORATION RATE: Refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g., water). pH; A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline pH = 14) VOC CONTENT: The percentage or amount in pounds per gallon of the product that is regulated as a Volatille Organic Compound under the Clean Air Act of 1990 and various state intradictions. jurisdictions. SQLUBILITY IN WATER: A description of the ability of the

product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION: Breakdown products expected to be produced upon product decomposition by extreme heat or fire. INCOMPATIBILITY: Material contact by extreme heat and the conditions to avoid to prevent hazardous reactions. POLYMERIZATION: Indicates the tendency of the product's molecules to combine with themselves in a chemical reaction. releasing excess pressure and heat.

STABUTY: Indicates the susceptibility of the product to spontagenesity and depart expenses and post.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES RCRA WASTE NOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

spontaneously and dangerously decompose.

or unusable product from the original solution.

SECTION X: TRANSPORTATION DATA

CWA: Clean Water Ad- Federal Law which regulates chemical releases to bodies of water.

RC: Reportable Quantity - The aribount of the specific ingredient that, when spilled to the ground and can entifer a storm sewer or natural watershed, must be reported to the National Response Centre, and other regulatory agencies.

TSCA: Toxic Substances Control Act - a federal law requiring.

DISCLAIMER .

All statements, technical information and recommendations contained herein are based on a 38fable scientific tests 519 data which we believe to be reliable. The accuracy and completeness of such data are notwarranted of Juaranteed (Westannot anticipate all conditions under which this information and our products, or the products of the product combinations, of from the failure to follow instructions, warnings, and advisories in the products label and Material Safety Data Speet. Sigur 3 in Seri

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maintained by the EPA.

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NEUTRON INDUSTRIES, INC.

7107 North Black Canyon Highway, Phoenix, AZ 85021

of 2

Page 1

MATERIAL SAFETY DATA SHEET

D-MOLISH

Type:

A formulated liquid enzyme cleaner and deodorizer

I. SHIPPING INFORMATION

D.O.T. Shipping Name: N/A D.O.T. Hazard Class: NONE

D.O.T. ID No: N/A D.O.T. Label: N/A

II. HAZARDOUS INGREDIENTS

Material

Weight %

TLV

This product contains no hazardous ingredients at greater than one percent by weight, as defined in Federal and State Worker Right-To-Know Laws.

No NTP, IARC, or OSHA Carcinogens present.

III. PHYSICAL DATA

Boiling Point(Fm): 210-220mF Specific Gravity(Water=1): 1.004 Volatile By Weight(%): > 90 Weight Per Gallon(pounds): 8.37 Solubility in Water: COMPLETE

pH: 8.5

Appearance & Odor: An emulsion with strong perfume odor.

IV. FIRE & HAZARD DATA

Flashpoint (Method Used): None to 200mF by T.C.C.

Extinguishing Media: N/A

Special Fire Fighting Procedures: NONE Unusual Fire & Explosion Hazards: NONE

V. HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: None Expected. Not intended for human consumption. Organisms used are non-pathogenic, but can cause infection when in contact with open wounds. These organisms can be killed by many commonly-used antibiotics.

CHRONIC EFFECTS: None expected

FIRST AID PROCEDURES:

If Swallowed: Contact a physician immediately. Drink two glasses of water to dilute.

If Inhaled: N/A

If in Eyes: Flush eyes immediately with plenty of cool water for at least 15 minutes. If redness or irritation continues, get medical

attention.

If on Skin: Wash thoroughly with soap and water.

D-MOLISH Page 2 of 2

VI. REACTIVITY DATA

Stability: STABLE

Conditions to avoid: Extremes in temperatures or pH

Incompatibility(Materials to avoid): Strong acids or bases may inactivate.

Hazardous Decomposition Products: N/A

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

VII. SPILL OR LEAK PROCEDURES

Steps To Be Taken if Material Is Released Or Spilled: Rinse material into nearest drain.

Waste Disposal Method: Small amounts should be placed in trash. Large quantities that cannot be used according to label directions should be given to a waste disposal company.

Follow All Federal, State and Local Regulations Regarding Waste Disposal.

VIII. SPECIAL PROTECTION INFORMATION

Eye protection and protective gloves are recommended any time you work with any concentrated industrial strength products.

Respiratory Protection: None Required

Ventilation: Adequate room ventilation to keep air circulating.

Protective Gloves: RECOMMENDED Eye Protection: RECOMMENDED Other Protective Equipment: NONE

IX. SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storage: Avoid extreme cold or heat. Do not contaminate with other products. Keep container closed when not in use. Do not reuse containers for any purpose. Destroy drums by puncturing.

OTHER PRECAUTIONS: Test on small inconspicuous area before using on synthetic fabrics and carpeting, to be sure product will not adversely affect color.

HMIS/NFPA RATINGS: Health 1 Flammability 0

Reactivity 0 Personal Protection B

Read and follow all label directions and precautions before using the product. These products are intended for industrial and institutional use only.

NOT FOR HOUSEHOLD USE OR RESALE KEEP OUT OF THE REACH OF CHILDREN

While we believe that the data contained herein is factual and the opinion expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which the company assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local Laws and regulations.

HEALTH AND SAFETY INFORMATION (216) 861-7114

REVISED: AUGUST 1996 SUPERCEDES: MARCH 1992

M00120

<u>D - MOLISH USAGE SHEET</u>

Use in drains to remove odors and build-up.

Slow drains come from build-up of hair, soap scum, oils and grease. <u>Initial Treatment:</u>
Pour 4 ounces of **D** - **Molish** down drain for five consecutive days. It is best to treat drains prior to evening shutdown. Then, for the next 10 days pour 4 ounces down drain every other day. <u>Maintenance</u>
<u>Treatment:</u> To keep the **D** - **Molish** bacteria active, use twice weekly.

Use around toilets or urinals for bacteria that grow on uric salts.

Clean area with all-purpose cleaner, then apply **D** - **Molish** by spraying the surface, mist with water and leave it until the next time you clean. Be sure that disinfectants are not utilized before or after treatment as disinfectants will kill the bacteria in **D** - **Molish**.

Use on carpet for pet urine, vomit or food spills.

Spray **D** - Molish on affected area, mist with water and cover with moist towel or sheet to maintain active bacteria. Leave for 24 hours. If odor persists, reapply 48 hours later. Keeping **D** - Molish moist allows product to wick down to pad underneath carpet and control odors. Be sure to rinse treated carpet area with damp sponge or rag. This prevents future build-up of dirty spots from **D** - Molish detergent residues.

Use as laundry pre-spotter to remove make-up, blood, urine, solid waste, some foods and most stains.

Mist stain with water. Apply **D** - Molish, allow to work overnight. Roll item up or place in plastic bag to maintain moisture. Then wash as normal.

Use on mattresses for blood, urine or solid waste.

Clean area with wet cloth, then spray with **D** - **Molish** and agitate with cloth or brush. If possible, cover with damp towel to allow **D** - **Molish** to work.

Use on walls for smoke damage.

Clean walls with an all-purpose cleaner, spray with **D** - Molish, mist with water and leave to air dry. If odor persists, reapply 48 hours later.

Use for miscellaneous building problems.

D - Molish can be diluted 2 to 4 ounces per gallon of water and sprayed lightly to control musty odors on drapes and furniture. **D** - Molish will also be effective in locker rooms to control odors, and in trash chutes in apartment buildings. **D** - Molish will also accelerate decomposition in compost piles containing grass, leaves and garden waste.

Use in veterinary hospitals, animal shelters and kennels.

Dilute **D** - Molish 2-4 ounces per gallon and spray animal runs, cages, waiting areas, etc. Do not spray directly on the animals. Diluted, **D** - Molish can be used on zoo floors and on ground surfaces in stables. Use of **D** - Molish on the floor of stables reduces fly population by eliminating waste matter where fly eggs are laid.

69N3

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Use for odor control in appliances for apartment houses and used stores.

Preclean refrigerators/freezers as necessary. Spray **D** - Molish, close unit and allow to work overnight. Rinse as necessary before appliance is placed back in service.

Use for automobile dealerships.

D - Molish can be sprayed onto pre-dampened surfaces in used cars to freshen and remove vomit, animal and food stains. Cover if possible and allow to work overnight. Rinse with damp sponge as necessary.

Use for telephone booths, municipal areas and alleyways.

Dilute D - Molish 2-4 ounces per gallon and apply through sprayer. Urine odors will be controlled.

Use to remove odorous substances used by natural gas distribution companies.

The odorant used to identify natural gas is methyl mercaptan. Empty drums and small tanks can be deodorized with **D** - **Molish**. Add 1 to 2 quarts of **D** - **Molish** to a drum and dilute with 3 to 5 gallons of water. Roll drum several times per day to wet all surfaces. Continue until odor is digested. Process works best at room temperatures. Clothing that has been exposed to mercaptan can be sprayed directly with **D** - **Molish** and misted with water, or add **D** - **Molish** directly to laundry water. For mercaptan that has been spilled onto the ground, add an equal amount of **D** - **Molish** and water to the spill and the mercaptan will be digested by the product.

Use in septic systems.

D - Molish will maintain piping systems leading to septic tanks and add specific enzyme producing bacteria to septic tanks. Add 4 ounces **D** - Molish per week per 1000 gallon tank capacity.

Use in grease traps.

D - Molish, when alternated in use with Ceiling To Sewer, will lengthen time between grease trap cleanings. On heavily greased traps, first use Ceiling To Sewer to thoroughly clean the trap. Add **D** - Molish to the freshly cleaned grease traps at rate of 16 ounces, once or twice per week, once again, alternating weeks with Ceiling To Sewer.

Use of D - Molish in portable toilets, pit toilets, etc.

Addition of **D** - **Molish** will help to control odors and speed solid waste digestion. If odor is a specific problem, use Neutron's **Porta Power**. Diluted **D** - **Molish** at 2 to 4 ounces per gallon, sprayed on floor areas, will help to control odor problems and decrease fly population by reducing waste areas where eggs may be laid.

NOTES: Strong acids, caustic or lye, destroy enzyme action. Never use **D** - **Molish** in conjunction with or following disinfectant products as enzyme producing bacteria will be killed. **D** - **Molish** works best at room temperature to slightly warm conditions. Activity and results slow substantially with cold temperatures.

Appendix I

C.I., LLC, April 1999, Environmental Site Assessment, Michigan Apartments, Indianapolis, IN

Appendix I

C.I., LLC, April 1999, Environmental Site Assessment, Michigan Apartments, Indianapolis, IN

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Environmental Site Assessment

Michigan Apartments 3800 West Michigan Street Indianapolis, Indiana

CI Project No.: 0027-0027-19-Ph I AIM Date of Report: April 27, 1999

Prepared for:

AIMCO

1873 South Bellaire Street, Suite 1700

Denver, Colorado 80222

Mr. Mark Reoch

SITE SUMMARY

Michigan Apartments 3800 Michigan Street Indianapolis, Indiana

CI Project No.: 0027-0027-19-Ph I AIM

Date of Report: April 27, 1999

Assessment Component	Acceptable	Routine Solution	Phase II	Estimated Cost §	Reference Section	Page
Surface Areas	~			· .	2.1.2	5
Operational Activities	1				2.2	6
Hazardous Materials	1				2.3	6
Waste Generation	1				2.4	6
Storage Tanks/Pipelines	*				2.5	7
Asbestos		(1)		\$350	2.6	7
PCBs	/				2.7	7
Radon Gas		- (2)		\$350	2.8	8
Lead-Based Paint	1				2.9	8
Lead in Water	1				2.10	9
Historical Review	/				4	12
Regulatory Database Review		(3)		\$700-1200	5	14
Adjacent Properties	· /				6	17

Costs depicted are for investigation/program development activities. Remediation costs, if required, will be identified as a result of the activities.

(2) (3) Radon retesting should be conducted.

The development and implementation of an Asbestos Operations and Maintenance (O&M) Program.

The review of file information at IDEM to determine impact to the Project from the LUST site identified at the Project address.

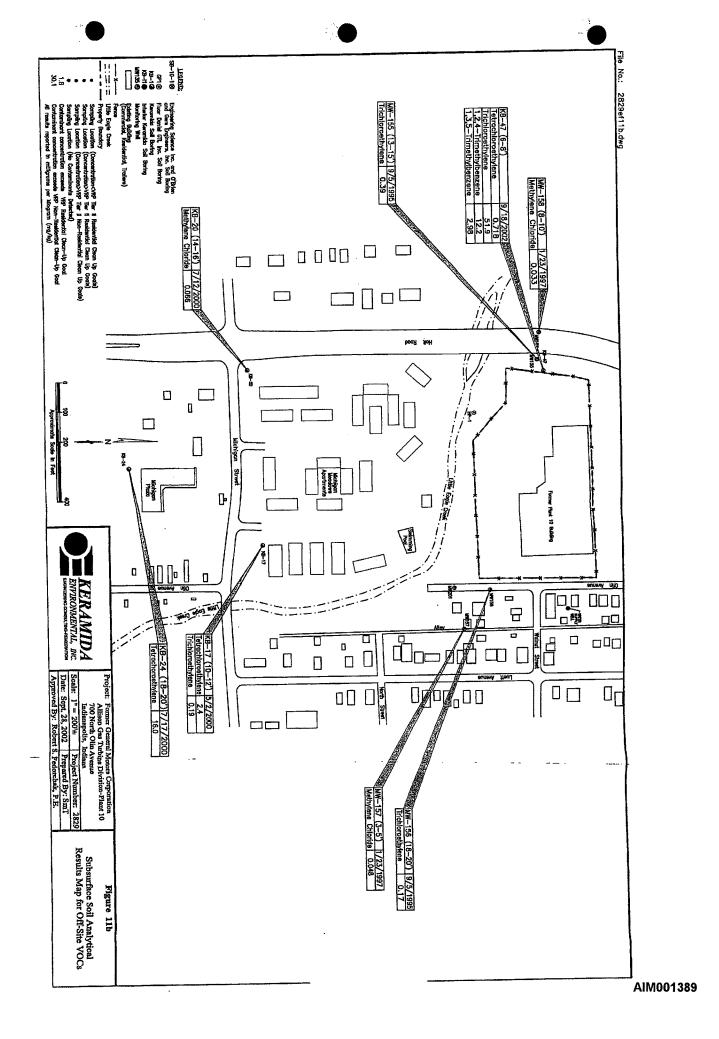
Appendix J

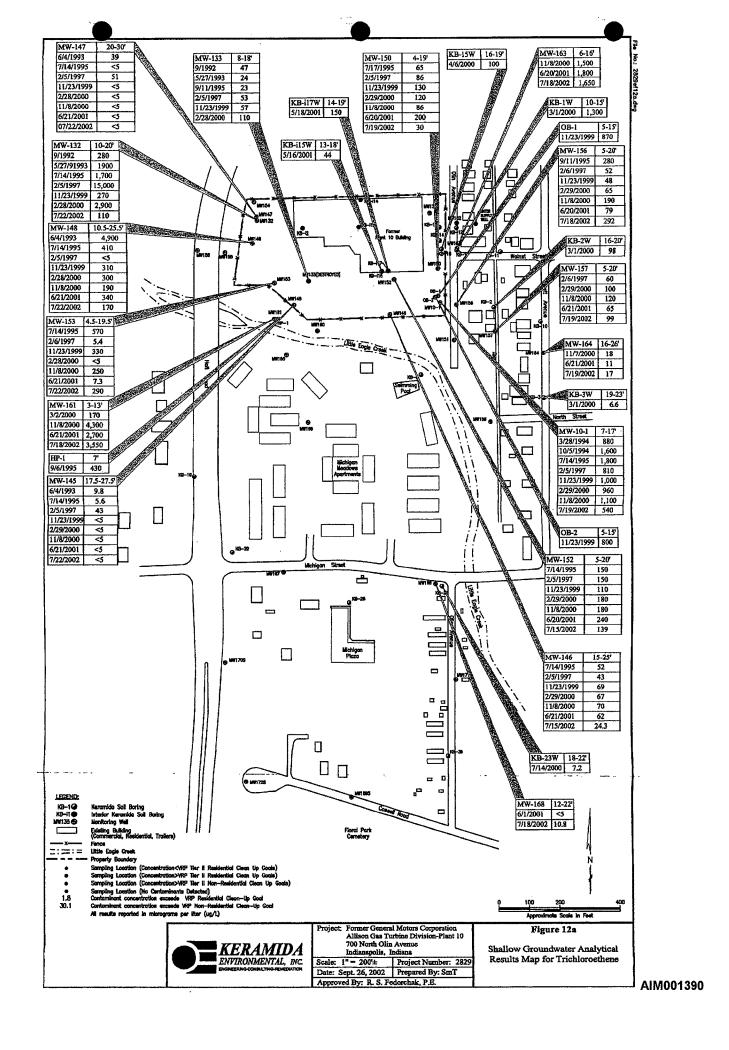
Keramida Remediation Work Plan - COC Figures

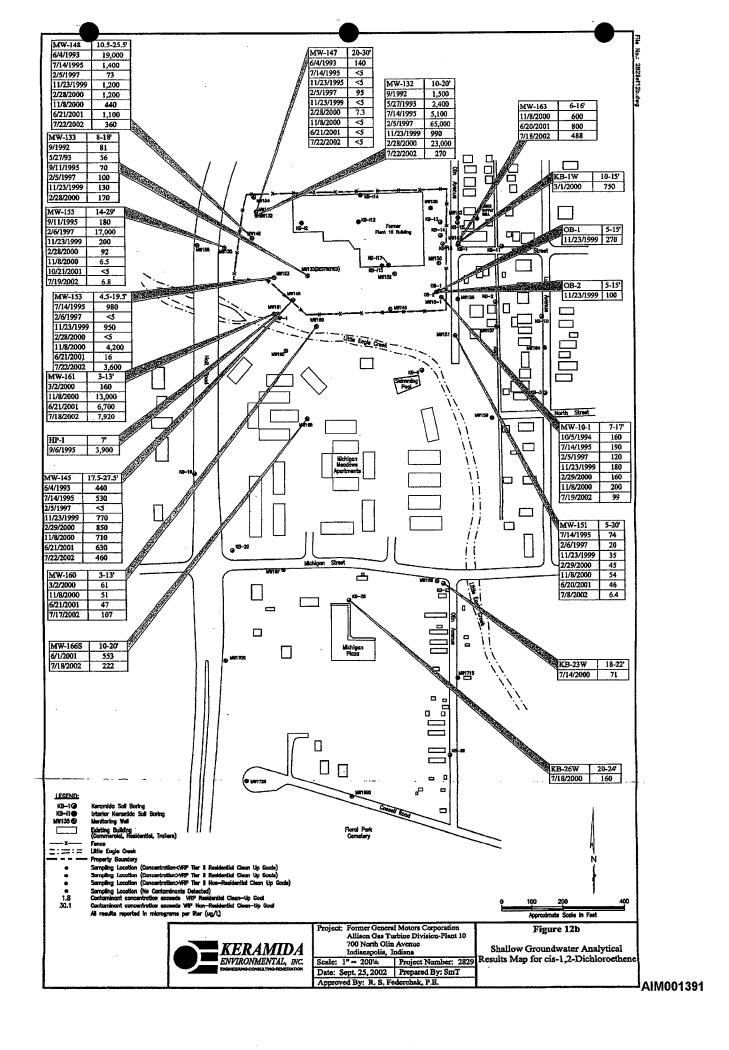
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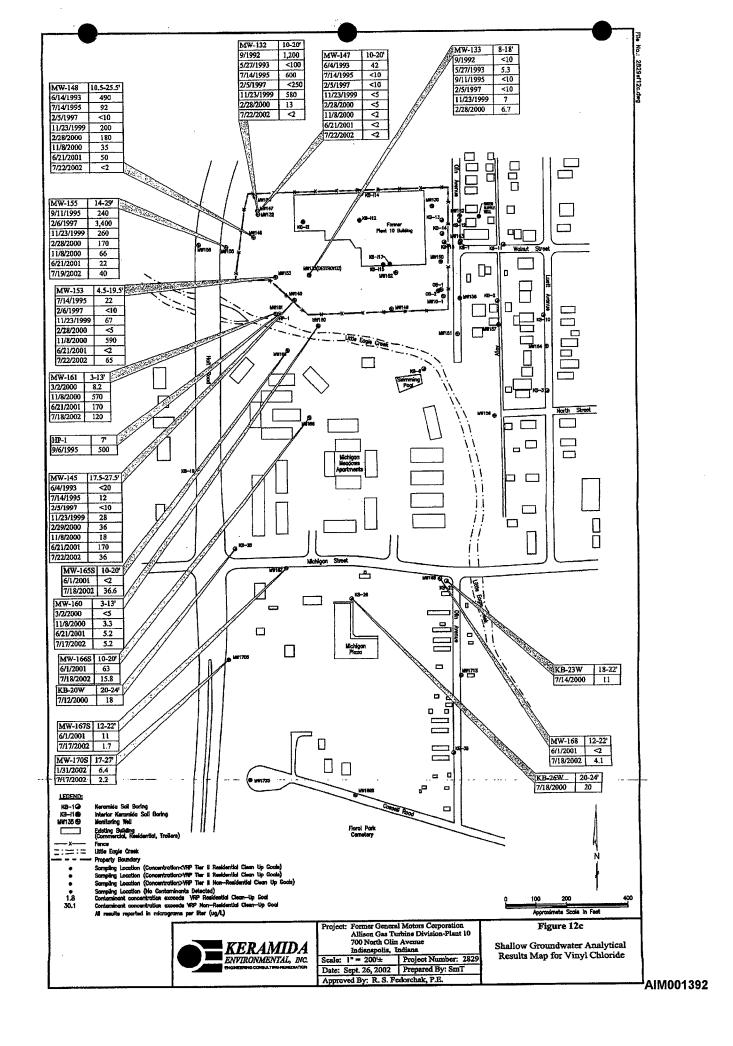
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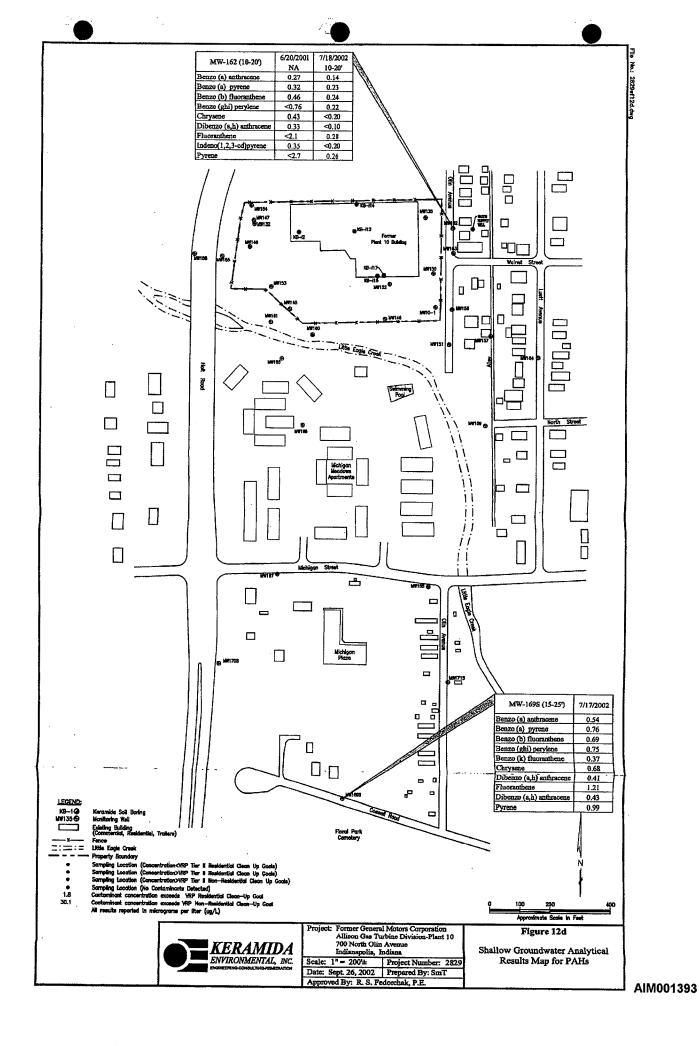
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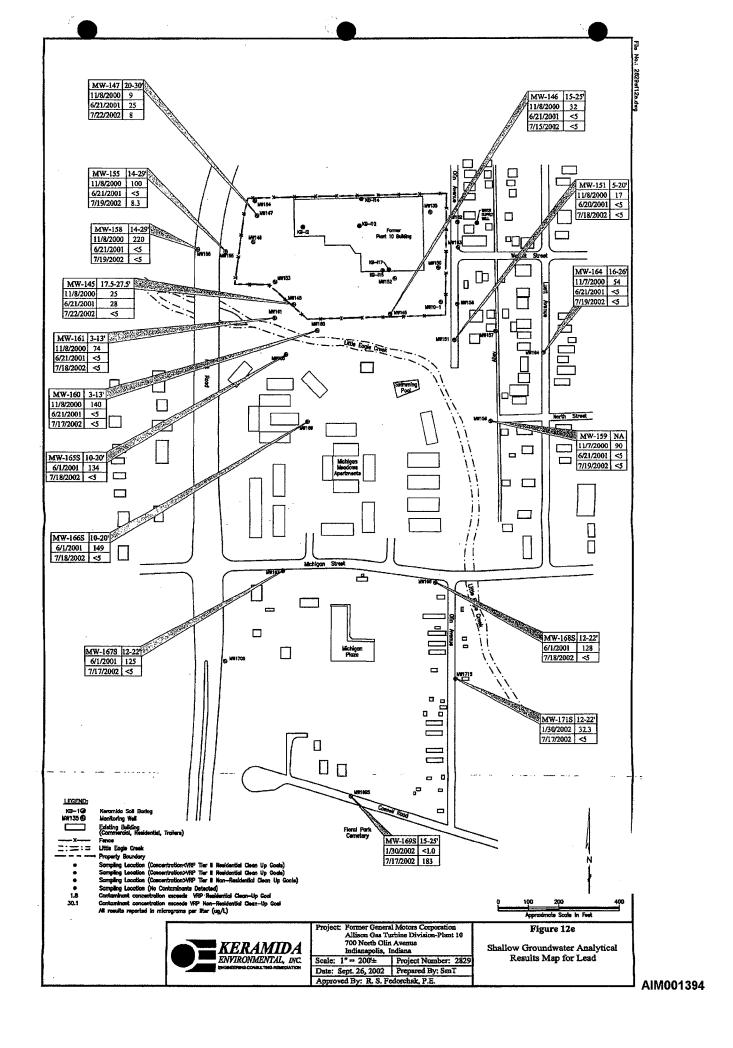


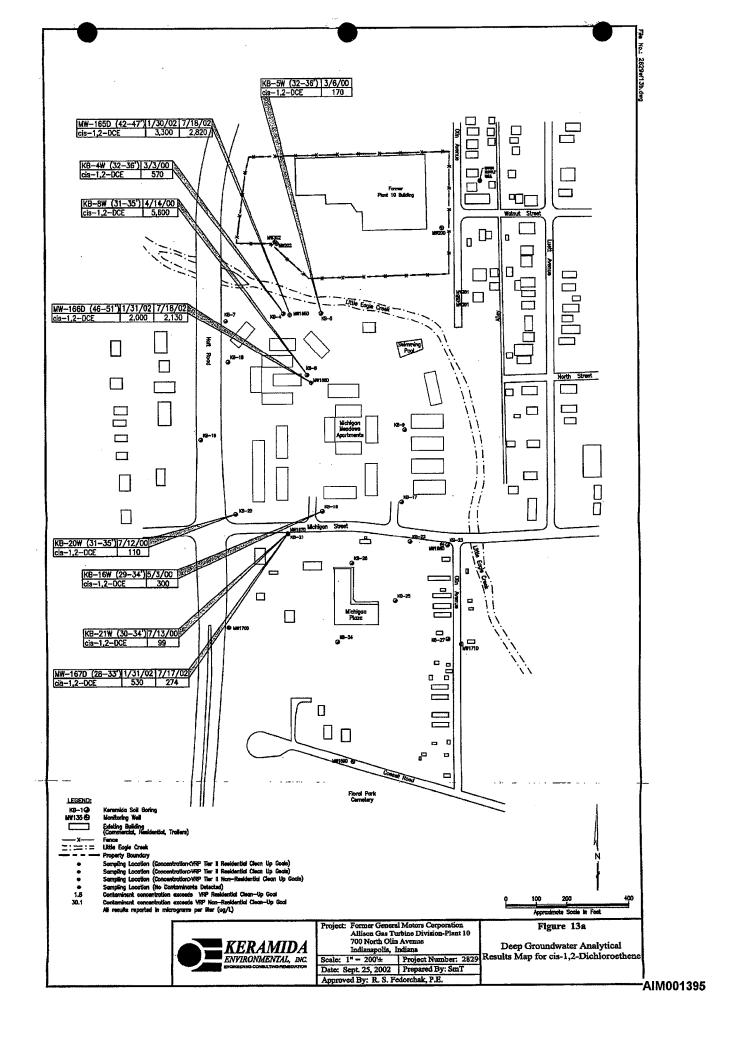


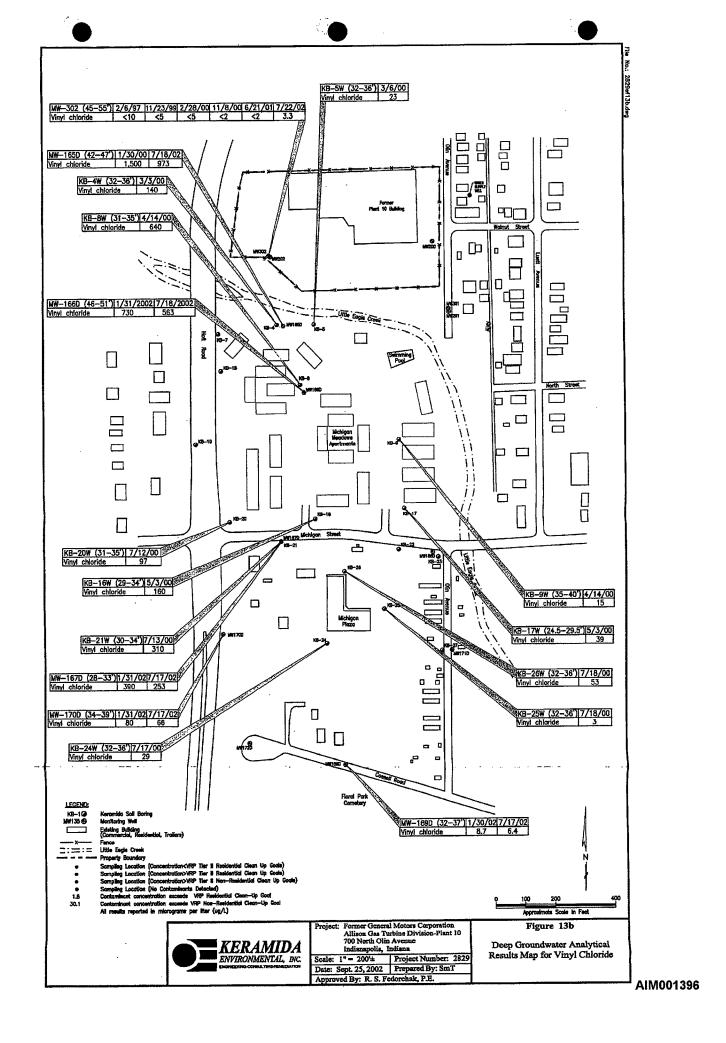


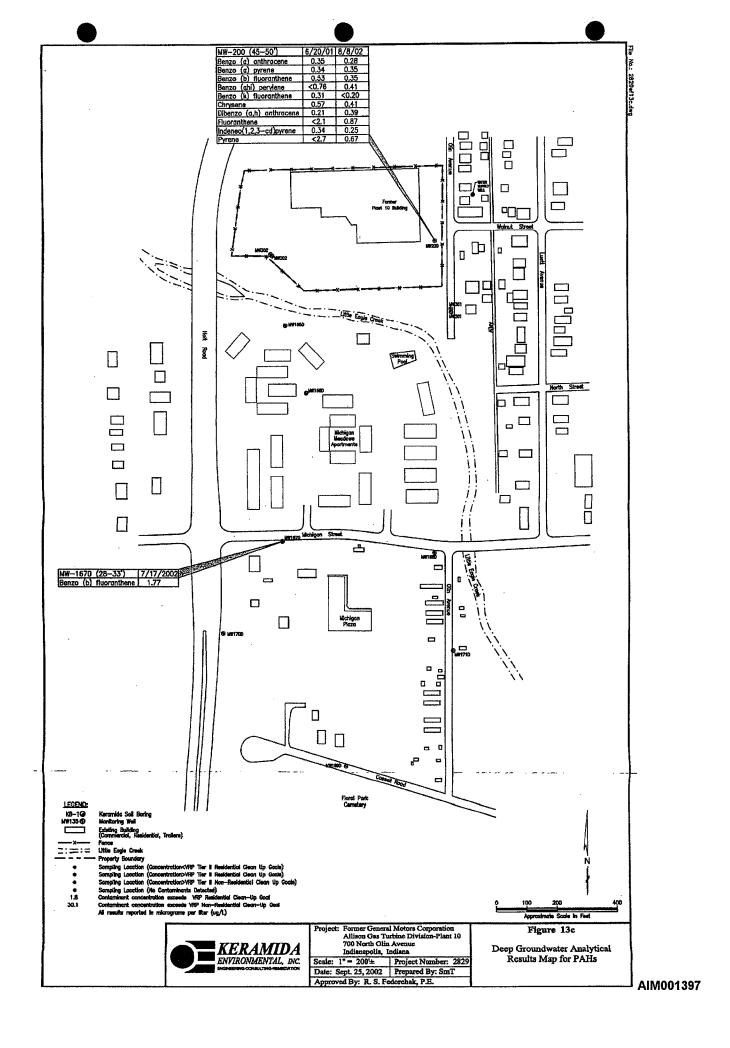


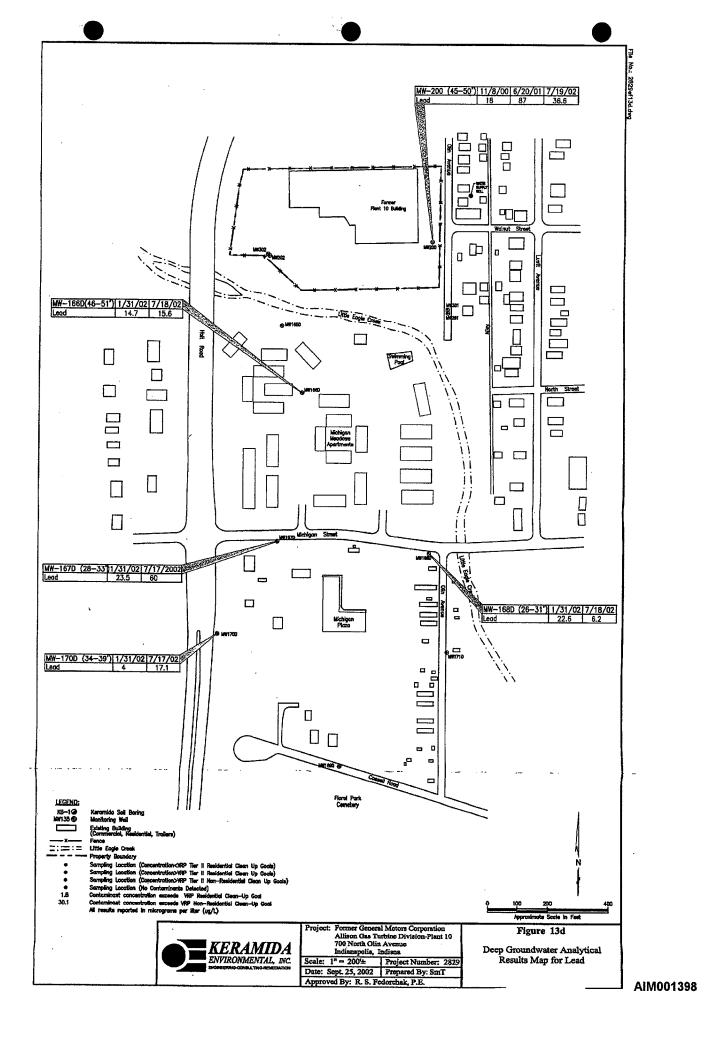


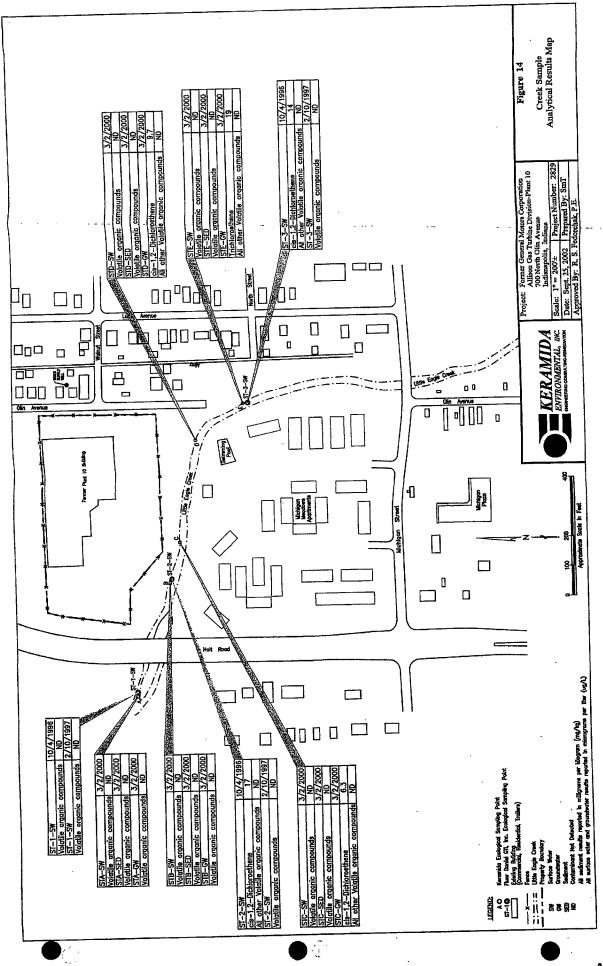












Appendix K

IDEM Files

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Appendix K

IDEM Files

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OFFICE OF SOLID AND HAZARDOUS WASTE 1995 BIENNIAL HAZARDOUS WASTE REPORT

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FORM	PAGE(S)	SECTION	CORRECTIONS NEEDED	
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BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME:

ALLISON ENGINE COMPANY, INC. PLANT 10

EPA ID NO:

3

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U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 9 of the 1995 Hazardous Waste Report booklet before completing this form.							
Sec. 1 Site name and location address. Complete A through H. Check the box D in items A, C, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 10.							
A. EPA ID No. Same as label □ or → <u>[T N D O O O 8 O 6 8 I O </u>	B. County MARION						
C. Site/company name ALLISON ENGINE COMPANY, INC. Same as label □ or → PLANT 10	D. Has the site name associated with this EPA ID changed since 1993? ☐ 1 Yes ※2 No						
E. Street name and number. If not applicable, enter industrial park, building name, or other physical location description. Same as label cor - 700 N. OLIN AVENUE							
F. City, town, village, etc. Same as label □ or → INDIANAPOLIS	G. State H. Zip Code Same as label Same as label [1]N [4:6:2:0:6]-						
Sec. II Mailing address of site. Instruction page 10.							
A. Is the mailing address the same as the location address? 1 Yes (SKIP TO SEC. III) 2 No (GO TO BOX B)							
B. Number and street name of mailing address P. O. BOX 420, MAIL STOP N-23							
C. City, town, village, etc. INDIANAPOLIS	0. State E. Zip Code 4, 6, 2, 0, 6,						
Sec. III Name, title, and telephone number of the person who should be contacted if	questions arise regarding this report. Instruction page 10.						
A. Please print: Last Name First name M.L. CARAKER KEVIN W.	B. Title ENVIRONMENTAL ENGINEER C. Telephone [3,1,7,1,2,3,0,-6,0,9,5] Extension [1,1,1,1]						
Sec. IV "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for knowing violations."							
A. Please print: Last Name First name M.L. HUDSON SYDNEY M.	B. Title PRESIDENT AND CHIEF OPERATING OFFICER						
C. Signature	D. Date of signature (0 12 12 16 19 6) MO. DAY YR.						

Page 1 or 7 Over →

EPA Form 8700-13A/B (Revised (8-95)

EPA ID NO: LTLN: D: 10-10-10-18-10-6-18-11-0-

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2 SOG SKIP to SEC. VI 2 Out of business 6 Waste minimization activity											
	□ 3 CESOG □ □ 3 Only excluded or delisted waste □ 7 Other (SPECIFY COMMENTS IN BOX BELOW) □ 4 Non generator (Continue to Box B) □ 4 Only non-hazardous waste										
LI 4 NOII	generator (CONTI	nue to Box B)	□ 4 Only non-	hazardous waste			, .	•		
Sec.VI - On-Site Waste Management Status. Instruction pages 13, 14. A. Storage subject to RCRA permitting requirements B. Treatment, disposal, or recycling subject to RCRA permitting. C. DCRA expect treatment disposal											
A. Storag	le soolect to	KUH	IA permitting requirer	nents	B. Treatment, disposal, requirements	, or recycli	ng subject to F	RCRA pe	rmitting	C. RCRA-exempt treatment, disposal, or recycling	
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Sec.VII -	Waste Min	imiza	ation Activity durin	g 1994 or 199	Instruction pages 1	4, 15:					
A. Did thi during 19	s site begin 94 or 1995	or ex	rpand a <u>source reduc</u>	tion activity	8. Did this site begin o	r expand a	recycling acti	vity duri	ng 1994 or	C. Did this site systematically investigate opportunities	
					1000:					for source reduction or recycling during 1994 or 1995?	
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買 2 No					兵 2 No					C≭2 No	
D. Did any	y of the fac ES OR NO F	tors I OR E	isted below delay or ACH ITEM)	limit this site's	ability to initiate new o	r additiona	source reduct	tion acti	vities in 1994	or 1995?	
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- 1	e 2	C.	Source reduction	o ngijsiniona in	n source reduction technically featible; cost savi	Nques appli	icable to the sp	pecific p	roduction pro	cesses .	
- 1	ps 2	d.	Concern that pro	oduct quality ma	ay decline as a result of	ings in was Esource rea	duction	t or proc	luction will no	recover the capital investment	
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⁰ 1	9 1.2	f.	Permitting burde	กร						•	
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E. Did any	of the fact	ors li	sted below delay or l			additional	on-site or off-	site recv	rlinn activities	during 1994 or 1995?	
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	·		implement new recy	cling practice		• •		g.	site for recy	nitations of production processes inhibit shipments off-	
更订	0 2	b.	Lack of technical in	formation on re	cycling techniques	育	- 2	h.	Technical lin	nitations of production processes inhibit on-site recycling	
5 \$1	0 2	r	applicable to this si Recycling is not eco	te's specific pro	duction process	风工	□ 2	i.	Permitting b	urdens inhibit recycling	
• • •		v.	in waste manageme	monnically teasil of will not reco	ile: COSI Savings	□ t #(1	E 2	į.	Lack of pen	mitted off-site recycling facilities	
			investment	will live too	ter the capital	مر ا 1 ت	□ 2 972	k.	Unable to id	entify a market for recycled materials	
- 1	X 2	ď.	Concern that produc	t quality may d	lecline as a result of	- 1	٦ ۷	١.	necycling pr	eviously implemented - additional recycling does not e technically feasible	
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Page 2 of 기 기에 진 AIM001405

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INSTRUCTIONS:	Read the detailed instructions beginning on page 16 of the 199	5 Hazardous Was	te



U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

••					
INSTRUCTIONS: Read the de	tailed instructions beginning on	page 16 of the 1995 Hazardou	s Waste Report booklet bef	ore completing this f	orm.
Sec. I A. Waste descri	ption - Instruction page 18.				
A. Haste desem		NO OD MONTMODIN	10 Imil 1 0		•
		ING OF MONITORIN	AG MELLS		
B. EPA hazardous waste code	Page 19.		C. State hazardous waste o	ode Page 19.	
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	LINIA LINIA	A LTTIMIN	`. L_L_L_L		1 1 1 1 1
D. SIC code Page 19.	E. Origin code (_2) Page 19	F. Source code Page 20.	G. Point of measurement	H. Form code	I: RCRA - radioactive mixed Page 20,
14.12.12.15.1	System Type LM	[A] 6 9	Page 20. 3	Page 20. LB_13_10_11_1	<u>12</u> 1
				1	
Sec. II A. Quantity gen Instruction Page	erated in 1994 B. Quantity gen 21. Page 21.	nerated in 1995	C. UOM Del Page 21.	site, dispo	is site do any of the following to this waste: treat on ose on site, recycle on site, or discharge to a TW? Page 21.
	ــــا ۵۰۰م	3 0 6 0 0 0	1 Libs/gat 0	2 sg 💢 2 No	(CONTINUE TO SYSTEM 1) (SKIP TO SEC. III)
ON-SITE PROCESS SYSTEM 1		,	ON-SITE PROCESS SYSTEM	2	
On-site process system type Page 22.	Quantity treated, dispose in 1995	d, or recycled on site	On-site process system type Page 22.	e . Quantity t in 1995	treated, disposed, or recycled on site
LM111		· · · · ·	L ^M LLLL	لـــــــا	<u> </u>
Sec.III A. Was any of Instruction page	this waste shipped off-site in 19	995 (1 Yes (CONTINUE)			
	B. EPA ID No. of facility waste Page 23.	was shipped to	C. System type shipped to Page 23.		E. Total quantity shipped in 1995 Page 23.
	LIND 093	2 1 9 0 1 2	<u>м,1 4,1</u>	Page 23.	30600.0
Site 2	B. EPA ID No. of facility waste Page 23.	was shipped to	C. System type shipped to Page 23.	D. Off-site availability code	E. Total quantity shipped in 1995 Page 23.
•		N.A.	- [M]	Page 23.	
Sec. IV A. Did new acti	vities in 1995 result in minimiza	ntion of this waste? □ 1 Yes	(CONTINUE TO BOX B)		
Instruction page	24.	¥ 2 No (THIS FORM IS COMPLETE)		
		D. Quantity recycled in 1995 of Page 25.	8	tivity/production F. 1 Page 25.	1995 source reduction quantity Page 26.
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184 Page 3 of 7

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Sec. 1	\. Waste descri	ption - Instructio	n page 18.								
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B. EPA hazardou	is waste code	Page 19.	- ····			C. State hazardous	waste c	ode Page	19.		
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B. Activity Page	e 24.	C. Other effect:	-	D. Quantity recycle Page 25.	ed in 1995 d	lue to new activities	•	tivity/produ Page 25.		995 source reduction quantity	Page 26.
ا الللا	WI	□ 1 Yes			-			rayo a.J.			

□ 2 No

Comments:

29 4 Page 4 of 7
AIM001407

BEFORE COPYIN	IG FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:		
SITE NAME:	ALLISON ENGINE COMPANY, INC. PLANT 10		<u></u>
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U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1995 Hazardous	s Waste Report booklet before completing this form.							
Sec. 1 A. Waste description - Instruction page 18. SOIL AND CONCRETE VAULT.	E FROM EXCAVATION OF ABONDONED UNDERGROUND							
B. EPA hazardous waste code Page 19.	C. State hazardous waste code Page 19.							
(F O O 1) (F O O 2)								
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	C. UDM Density D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.							
N,A,.,,4,5,3,8,0,.0	LL LLL • LLL □ 1 Yes (CONTINUE TO SYSTEM 1) □ 1 ibs/gal □ 2 sg							
ON-SITE PROCESS SYSTEM 1	ON-SITE PROCESS SYSTEM 2							
	On-site process system type							
[M] [] [] [] [] [] [] [] [] [] [] [] [] []	MIII LIIIIIIIIII							
Sec.III A. Was any of this waste shipped off-site in 1995 X 1 Yes (CONTINUE 1 Instruction page 22.	·							
	C. System type shipped to D. Off-site Page 23. Page 23. Page 23. Page 23. Page 23. Page 23. Page 23. Page 23. Page 23.							
Site 2 B. EPA ID No. of facility waste was shipped to	C. System type shipped to D. Off-site E. Total quantity shipped in 1995 Page 23. Page 23.							
L.J.L.J.L.N.A	Page 23.							
a								
B. Activity Page 24. C. Other effects Page 25. D. Quantity recycled in 1995 d Page 25.	lue to new activities E. Activity/production F. 1995 source reduction quantity Page 26.							
[Wiii] LWiii] □ 1 Yes [Wiii] LWiii] □ 2 No								
Convnents:								

344 Page 5 of 7
AIM001408

BEFORE COPYIN	G FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:		
SITE NAME:	ALLISON ENGINE COMPANY, INC.	:	· ·
EPA ID NO:	(I_N)D (0.0.0) (8.0.6) (8.1.0)		



U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

·				
INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1995 Hazardous Waste Report booklet before completing this form.				
Sec. I A. Waste description - Instruction page 18.				
SLUDGE FROM ABANDONED UNDERGROUND VAULT				
B. EPA hazardous waste code Page 19.	C. State hazardous waste code Page 19.			
(F.O.O.T) (F.O.O.2)				
$[D_1 0_1 0_1 6]$ $[D_1 0_1 0_1 7]$ $[D_1 0_1 0_1 8]$				
2 103	G. Point of measurement H. Form code I. RCRA - radioactive mixed Page 20.			
	Page 20. Page 20. L1. LB_16_10_19_ L2.			
	C. UOM Density D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.			
NA.,,,,,2000.0	□ 1 Yes (CONTINUE TO SYSTEM 1) □ 1 Ibsigal □ 2 sg 文 2 No (SKIP TO SEC. III)			
ON-SITE PROCESS SYSTEM 1	ON-SITE PROCESS SYSTEM 2			
On-site process system type Quantity treated, disposed, or recycled on site Page 22. in 1995	On-site process system type Quantity treated, disposed, or recycled on site Page 22.			
(M_				
Sec.III A. Was any of this waste shipped off-site in 1995 # 1 Yes (CONTINUE TO BOX B) Instruction page 22. © 2 No (SKIP TO SEC IV)				
	C. System type shipped to D. Off-site E. Total quantity shipped in 1995 Page 23. Javailability code Page 23.			
LIND 0, 9, 3, 2, 1, 9, 0, 1, 2	м <u>1 4 1</u> Раде 23. 1 2 0 0 0 . 0			
Site 2 B. EPA ID No. of facility waste was shipped to Page 23.	C. System type shipped to D. Off-site E. Total quantity shipped in 1995 Page 23. Page 23.			
· · · · · · · · · · · · · · · · · · ·	Page 23. Page 23.			
Sec. IV A. Did new activities in 1995 result in minimization of this waste? 1 Yes (CONTINUE TO BOX B) Instruction page 24. X 2 No (THIS FORM IS COMPLETE)				
B. Activity Page 24. C. Other effects Page 25. D. Quantity recycled in 1995 d	lue to new activities E. Activity/production F. 1995 source reduction quantity Page 26.			
LW1-1-1 C1 Yes				
LWIII LWIII				
Comments:				
outrien.				

4og 4 Page to or 7

SITE NAME: ALLISON ENGINE COMPANY

PLANT 10

EPA ID NO: LI N. D. O. O. O. 18 O. 6 8 1 O.



U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

OFF-SITE IDENTIFICATION

•	
INSTRUCTIONS: Read the detailed instructions on the reverse side before completin	a this form
AND THOO FIGHT. Head the detailed histidetichs on the ference and derive damplement	g und turns
<u> </u>	
Site 1 A. EPA ID No. of off-site installation or transporter I, N, D, 0, 5, 8, 4, 8, 4, 1, 1, 4,	B. Name of off-site installation or transporter
I, N, D, , 0, 5, 8, , 4, 8, 4, , 1, 1, 4,	HERITAGE TRANSPORT, INC.
	HERLINGE INDICATE, INC.
C. Handler type (CHECK ALL THAT APPLY)	D. Address of off-site installation
□ Generator	Street NA.
X Transporter	City
□ TSDR	4.
וייים וייים	State Lili Zip Lili-Lili
Site 2 A. EPA ID No. of off-site installation or transporter	B. Name of off-site installation or transporter
[I, N, D, (0, 9, 3, (2, 1, 9), (0, 1, 2)]	HERITAGE ENVIRONMENTAL SERVICES
	· · · · · · · · · · · · · · · · · · ·
C. Handler type (CHECK ALL THAT APPLY)	D. Address of off-site installation
□ Generator	Street 7901 WEST MORRIS
□ Transporter	City <u>INDIANAPOLIS, IN</u>
y ⊘ TSDR	State T N Zip 4 6 2 3 1 - 1 3 6 7
Site 3 A. EPA ID No. of off-site installation or transporter	B. Name of off-site installation or transporter .
	· · · · · · · · · · · · · · · · · · ·
C. Handler type (CHECK ALL THAT APPLY)	D. Address of off-site installation
□ Generator	Street
D Transporter	City
□ TSDR	
- TODA	State LL ZP LL LL - LL LL J
Site 4 A. EPA ID No. of off-site installation or transporter	B. Name of off-site installation or transporter
	D. Name of on-site historialion of computer
C. Handler type (CHECK ALL THAT APPLY)	D. Address of off-site installation
•	N i a company i di company a company a company a company a company a company a company a company a company a c
□ Generator	Street
□ Transporter	City
□ TSDR	State L. L. Zip L. L. L. L. L. L. L. L. L. L. L. L. L.
Are P. La COA ID At a fact the base of the	D. All and afficient at the state of the sta
Site 5 A. EPA 10 No. of off-site installation or transporter	B. Name of off-site installation or transporter
<u> </u>	
O II - Harana (O) POU ALL THAT ADDA	D. A. 1
C. Handler type (CHECK ALL THAT APPLY)	D. Address of off-site installation
□ Generator	Street
□ Transporter	City
□ TSDR	State Lill Zip Lill-Lill
Comments:	·
	•

/ of / Page 7 of 7

Office of Solid & Hazardous Waste Mand in ment INDIANA DEPARTMENT OF ENVIRONMENTA. JANAGEMENT

105 South Meridian Street P.O. Box 6015

Indianapolis, IN 46206-6015

COOK, PETE-SPEED CODE S-44A ENVIRONMENTAL COORDINATOR

STATE OF INDIANA

66-01

FORM F.

IND000806810 GMC-DIANT 10 Allison Gas Turbine

INDIANAPOLIS, IN 46204
SOLID WASTE MANAGEMENT BUAKD
INSTRUCTIONS: Please refer to the specific instructions before completing this form. The information requested herein is required by IC 13-7-8.52.
I. TYPE OF HAZARDOUS WASTE REPORT FOR THE YEAR ENDING DEC. 31, 19 FORM G:
GENERATOR BIENNIAL REPORT FORM F: FACILITY BIENNIAL REPORT
DID NOT GENERATE/TSD HAZARDOUS SMALL QUANTITY GENERATOR OF HAZARDOUS WASTE
GENERATE LESS THAN GENERATE BETWEEN 100 Kg PER MONTH 100 & 1000 Kg PER MONTH
II. INSTALLATION'S EPA I.D. NUMBER
III. NAME OF INSTALLATION # 1 a n t 1 0 A L L I S O N G A S T U R B I N E G M
IV. INSTALLATION MAILING ADDRESS
TREET OR P.O. BOX P ₁ O ₁ B ₁ O ₁ X ₁ 44 2 0
CITY OR TOWN Thin a state of the state of th
V. LOCATION OF INSTALLATION STATE I N ZIP CODE 4 6 2 0 6
STREET OR P.O. BOX 7 0 0 NORTH OLIN AVEL 1 1 1 1 1 1 1 1 1 1
CITY OR TOWN I N D I A N A P O L I S
STATE 1 ZIP CODE 4 4 4 4 4 COLLYWY
VI. INSTALLATION CONTACT COUNTY M A R I O N
Last Name First Name Phone (area code & no.)
c ю о к
VII. CERTIFICATION
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. THIS CERTIFICATION HAS BEEN PREPARED ON BEHALF OF GENERAL METORS CORPORATION.
THIS CERTIFICATION HAS BEEN PREPARED ON BEHALF OF GENERAL MOTORS CORPORATION. 2-26-88
A.) PRINT OR TYPE NAME AND TITLE (B.) SIGNATURE (C.) DATE SIGNED
Please print or type with ELITE type (12 characters per inch). PAGE 1 OF 1
State Form 1928BR

Revised 10/87

WASTE MINIMIZATION STATEMENT 1987 HAZARDOUS WASTE BIENNIAL REPORT

This report is for the calendar year ending December 31, 1987.

The Hazardous and Solid Waste Amendments of 1984 and Indiana Rule 320 IAC 4.1-10-2(b) require all generators of hazardous waste to provide information with respect to waste minimization as part of their biennial report. The following information is being required to satisfy that requirement:

Generator's EPA I.D. No.

IND000806810

Waste Minimization

Describe in the space below your efforts, undertaken during calendar year 1987, to reduce the volume and toxicity of the hazardous waste which your business generates. Also, describe changes in waste volume and toxicity actually achieved during 1987 in comparison to previous years, to the extent possible.

THIS FACILITY DID NOT GENERATE ANY HAZARDOUS WASTE IN 1987.

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. This certification has

been prepared on behalf of General Motors Corp.

F. B. Wallace,
Print/Type Name

General Manager

Title

Signature

2-26-88

Date Signed



Man 2 2 00 PH '88

OFFICE OF BOLID AND HAZARDOUS WASTE HIGHT DEM

February 23, 1988 (REF:NC628)

Ms. Karyl K. Schmidt, Chief Geology Section Office of Solid & Hazardous Waste Mgmt. Department of Environmental Management P. O. Box 6015 Indianapolis, IN 46206

Subj: Groundwater Annual Report Allison Gas Turbine Plant #5 General Motors Corporation IND 000806836

Dear Ms. Schmidt:

In accordance with 320 IAC 4.1-20-5(a)(2)(ii) and (iii), Allison Gas Turbine is submitting this annual report describing the status of the groundwater monitoring system at the above mentioned facility for the 1987 calendar year.

Statistical analysis of the data was performed using the average replicate t-test. No significant differences were calculated for the wells during 1987. Analytical and statistical data is presented in the attached tables.

Review of groundwater level data indicates that, in both the shallow and deep systems, Wells 1 and 2 continue to be upgradient.

On behalf of General Motors Corporation, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please call P. P. Cook on 230-4388 or P. A. Eddy on 230-5456 if you have any questions.

Sincerely,

F. B. Wallace General Manager

FBW/nc

cc: Regional Services

ALLISON GAS TURBINE 1987

H₂O E1.

Well	<u>1</u>	2	<u>3</u>	4	<u>5</u>
Date			•		
4-28-87					
Shallow	665.02	663.85	661.19	661.67	663.19
Deep	664.73	663.91	661.18	661.60	662.42
					•
	•			•	
10-20-87		•			
Shallow	Dry	Dry	659.72	Dry	Dry
Deep	663.13	662.31	661.41	660.09	661.03

ALLISON GAS TURBINE 1987 SHALLOW WELLS

рH

Well		<u>1s</u>	<u>2S</u>	<u>3S</u>	<u>4S</u>	<u>58</u>
Date						
4-28-8	37					
	pH A	7.02	Dry	7.21	6.63	7.09
	рн в	7.02		7.29	6.69	7.08.
	рн С	7.03		7.23	6.80	7.06
	pH D	7.01		7.24	6.85	7.07
	$\bar{\mathbf{x}}$	7.02		7.24	6.74	7.08
	t*	0.91		1.60	0.04	1.10
	tc	5.111		5.111	5.111	5.111
	Status	OK		OK	OK	OK
10-20-	-87					
	рн А	Dry	Dry	6.93	Dry	Dry
	рн в			6.97		
	рн С		•	6.91		
	pH D	•		6.93		
	\bar{x}	٠		6.94		•
	t*			0.66		
	t _c			5.111		
	c Status			OK		

ALLISON GAS TURBINE 1987 DEEP WELLS

Нд

Well		<u>1D</u>	<u>2D</u>	<u>3D</u>	<u>4D</u>	<u>5D</u>
Date						
4-28-8	3 ⁷				٠.	
	pH A	7.08	7.03	7.17	6.95	6.73
	рн в	7.17	7.10	7.09	6.88	6.78
	рн С	7.14	7.10	7.18	6.94	6.81
	pH D	7.12	7.05	7.18	6.88	6.78
	$\overline{\mathbf{x}}$	7 . 13	7.07	7.16	6,91	6.78
	t*	0.43	0.26	0.51	-0.19	-0.55
	t _c	5,111	5.111	5.111	5.111	5.111
	Status	OK	OK	OK	OK	OK
10-20-	-87	,	•			
	рн А	6.72	6.86	6.82	6.57	6.75
	рн в	6.75	6.90	6.78	6.62	6.71
	рН С	6.80	6.93	6.78	6.63	6.76
	pH D	6.83	6.97	6.75	6.68	6.73
	_ x	6 . 78	6.92	6.78	6.63	6.74
	* t	-0.55	-0.16	-0.55	-0 . 97	-0.66
	t _c	5.111	5.111	5.111	5.111	5.111
	c Status	OK	OK	OK	OK	OK
	Juicus	·			OIL	Q1.

ALLISON GAS TURBINE 1987 SP. COND. SHALLOW WELLS

Well	<u>15</u>	<u>2S</u>	<u>3S</u>	<u>4S</u>	<u>5S</u>
Date				s y	
4-28-87		-			·
SP. COND. A	950	Dry	960	750	740
SP. COND. B	960		960	750	740
SP. COND. C	960		960	760	740
SP. COND. D	960		960	770	740
$\frac{1}{x}$	9.575		960	757.5	740
t*	-1.12		-1.11	-1.81	-1.87
tc	4.609		4.609	4.609	4.609
Status	OK		OK	OK	OK
10-20-87			•		
SP. COND. A	Dry	Dry	720	Dry	Dry
SP. COND. B			720		
SP. COND. C			730		
SP. COND. D			740		
$\frac{\cdot}{X}$			727. 5		
* t			-1 . 91		
t _c			4.609		
c Status		•	OK		
			•		

ALLISON GAS TURBINE 1987 DEEP WELLS SP. COND.

Well	<u>1D</u>	<u>2D</u>	<u>3D</u>	<u>4D</u>	<u>5D</u>
Date		•			
4-28-87				•	
SP. COND. A	1040	1020	790	660	700
SP. COND. B	1040	1030	790	650	700
SP. COND. C	1040	1030	790	660	700
SP. COND. D	1050	1030	790	670	700
		•			
$\overline{\mathbf{x}}$	1042.5	1027.5	790	660	700
* t	-2.41	-2.48	-3.62	-4.24	-4.05
t _c	4.609	4.609	4.609	4.609	4.609
Status	OK	OK	OK	OK	OK
10-20-87					
SP. COND. A	650	740	580	520	540
SP. COND. B	650	740	590	530	540
SP. COND. C	660	750	590	530	550
SP. COND. D	650	740	590	530	550
-		•			
$\overline{\mathbf{x}}$	652.5	742.5	587.5	527.5	545
t*	-4.28	-3.85	-4.59	-4.88	-4.80
t_c	4.609	4.609	4.609	4.609	4.609
Status	OK	OK .	OK '	OK	OĶ
					٠,

ALLISON GAS TURBINE 1987 SHALLOW WELLS TOC (PPM)

Well		<u>1s</u>	<u>2S</u>	<u>3S</u>	<u>4S</u>	<u>5s</u>
Date						•
4-28-8	37					
-	TOC A	4	Dry	<3	` ' <3	< 3
	TOC B	4		<3	<3	<3
	TOC C	3		<3		<3
	TOC D	5		<3	.≺3	4
	$\overline{\mathbf{x}}$	4	·.·	1.5	2.13	2.13
	t*	-0.47		-0.55	-0.53	-01.53
	t _c	4.609	•	4.609	4.609	4.609
	Status	OK		OK	OK	OK
10-20-	-87			•		
	TOC A	Dry	Dry	<3	Dry	Dry
	TOC B			< 3		
	TOC C			< 3		
, .	TOC D			< 3		
	$\overline{\mathbf{x}}$			1.15		
	t*			-0.55		
	t _c			4.609		
	c Status			OK		
	*					

ALLISON GAS TURBINE 1987 DEEP WELLS

TOC (PPM)

Well	•	<u>1D</u>	<u>2D</u>	<u>3D</u>	<u>4D</u>	<u>5D</u>
Date			•			
4-28-	-87	•		•		
	TOC A	6	7 .	<3	<3	5
	TOC B	8	5	<3	< 3	6
	TOC C	8	5	<3	<3	9
	TOC D	7	7 .	<3	< 3	3
				i		
	Х , *	7.25	6	1.5	1.5	5.75
	t	0.17	-0.06	-0.86	-0.86	-0.10
	t _c	4.609	4.609	4.609	4.609	4.609
	Status	OK	OK .	OK	OK	OK
10-20	0–87					
`	TOC A	<3	< 3	<3	<3	. <3
	TOC B	<3	<3	<3	· <3	<3
	TOC C	< 3	<3	<3	< 3	<3
	TOC D	<3	< 3	5	7	<3
	=	4 -				4.5
•	-X *	1.5	1.5	2.38	2.88	1.5
•	* t	-0.86	-0.86	-0.71	-0.62	-0.86
	t _c	4.609	4.609	4.609	4.609	4.609
	Status	OK	OK	OK	OK	OK

ALLISON GAS TURBINE 1987 SHALLOW WELLS TOX (PPM)

Well	,	<u>1s</u>	<u>2S</u>	<u>3S</u>	<u>4S</u>	<u>5S</u>
Date				•	We manual	
4-28-	87				•	
•	A XOT	.04	Dry	.09	.06	.11
	TOX B	.05	_	.07	.08	.13
	TOX C	.04		.07	.08	.10
	TOX D	.05		.08	.07	.13
			• •			
	X ∗	.045		.078	.073	0.118
	t*	0.61		1.88	1.69	3.42
	t _c	4.609	•	4.609	4.609	4.609
	Status	OK		OK	OK	OK
10-20-	-87					
	A XOT	Dry	Dry	.07	Dry	Dry
	TOX B		•	.08		
•	TOX C			.08		
. •	TOX D			.97		
	$\overline{\mathbf{x}}$.075		
	t*			1.76		•
	t _c		.*	4.609	-	
	°c Status		· .			
	Status			OK,		

ALLISON GAS TURBINE 1987 DEEP WELLS

TOX (PPM)

Wel	.1	<u>1D</u>	<u>2D</u>	<u>3D</u>	<u>4D</u>	<u>5D</u>
Dat	æ					
4-2	8-87			•	•	
	TOX A	<.01	.03	.03	.04	.05
	TOX B	<.01	.04	.03	.06	.06
	TOX C	.02	.02	.03	.06	.06
	TOX D	<.01	<.01	.02	.04	.06
	Х	.009	.024	.028	.05	.058
	t*	-0.59	0.07	0.24	1.20	1.55
	t _c	4.609	4.609	4.609	4.609	4.609
	Status	OK .	OK	OK	OK	OK
10-	20-87					
	A XOT	.03	.03	<.01	.04	<.01
	TOX B	.03	.03	.03	.03	<.01
	TOX C	.04	03	.02	.03	.03
	D XOT	.03	.03	.02	.03	<.01
		222				
	X *	•033	.03	.019	.033	.011
	t*	0.46	0.33	-0.15	0.46	-0.50
	t _c	4.609	4.609	4.609	4.609	4.609
	Status	OK -	OK	OK	OK	OK

-	_		~ ~ ~		REPORT C				REF NO.
ompany	Name <u>G</u>	MC-	-DDAD-	-Plant	- 10	Ε	PA ID Nu	mber IND	00030681
ABEL DI	SCREPAI	NCIES:	Yes?						
	pany Na		,	,		Parco	n Douioui	- Day	K
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									$^{\circ}$

Division of Land Pollution Control INDIANA STATE BOARD OF HEALTH 1330 West Michigan Street P. O. Box 1964 Indianapolis, Indiana 46206 GMC-DDAD-FLANT 10
P.O. BOX & RECEIVED 204
FEB 2 8 1986

FORM E:

INDIANA STATE BOARD OF HEALTH

AND TROUBLE OF CONTROLON STATE BOARD OF HEALTH

ENVIRONMENTAL MANAGEMENT BOARD

INSTRUCTIONS: Please refer to the specific instructions before completing this form. The information requested herein is required by IC 13-7-8.5-2. I. TYPE OF HAZARDOUS WASTE REPORT FOR THE YEAR ENDING DEC. 31, 1985
FORM G: GENERATOR BIENNIAL REPORT FORM F: FACILITY BIENNIAL REPORT
DID NOT GENERATE/TSD HAZARDOUS X SMALL QUANTITY GENERATOR OF HAZARDOUS WASTE GENERATE LESS THAN GENERATE BETWEEN 100 Kg PER MONTH 100 & 1000 Kg PER MONTH
II. INSTALLATION'S EPA I.D. NUMBER INDO O O 8 0 68 10
III. NAME OF INSTALLATION PLANT 10 DET DIE EL ALLISON C
IV. INSTALLATION MAILING ADDRESS
eet or P. O. Box P O B O x 8 9 4
crty or Town I NDIIANAPOLIS I I I I I I I I I I I I I I I I I I
State I N Zip Code 4 6 2 0 6
V. LOCATION OF INSTALLATION
Street or P. O. Box 7 0 0 N 0 R T H
State TN Zip Code 4 6 2 2 2 County M A R T ON 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
VI. INSTALLATION CONTACT Last Name
VII. CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. This certification is made on behalf of General Motors Corporation. [A.) PRINT OR TYPE NAME AND TITLE [B.) SIGNATURE (C.) DATE SIGNED
tase print or type with ELITE type (12 characters per inch). PAGE $\frac{1}{1}$ OF $\frac{1}{1}$

SBH66-001 State Form 19288 R

Revised 10/85

GM



Environmental Activities Staff General Motors Corporation General Motors Technical Center Warren, Michigan 48090

February 23, 1982

Mr. Guinn Doyle Department of Sanitary Engineering Indiana State Board of Health 1330 West Michigan Street Indianapolis, IN 46206

Dear Mr. Doyle:

General Motors Corporation (GM) hereby submits proof of financial capability as requested in the January 1982 letter from Mr. David Lamm to owners or operators of hazardous waste management facilities. As requested in item 6a of the letter, attached are copies of GM's most recent quarterly and annual reports, and a certificate of good standing issued by the Indiana Secretary of State's office.

Persuant to our telephone conversation of February 10, 1982, this submittal is made on behalf of all GM facilities in Indiana.

If any further information is needed, please contact me at (313) 575-8602.

Very truly yours,

Bill Collinson

William J. Collinson Staff Project Engineer Plant Environment

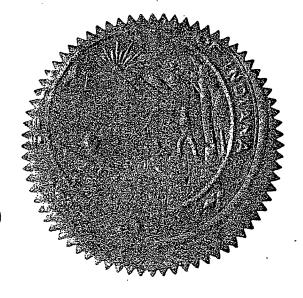
att.

STATE OF INDIANA OFFICE OF THE SECRETARY OF STATE

To Whom These Presents Come, Greeting:

I, EDWIN J. SIMCOX, Secretary of State of the State of Indiana, do hereby certify that I am, by virtue of the laws of this State, the Custodian of the Corporate Records and the Proper Office to execute this certificate.

I further certify that the records of this office disclose that GENERAL MOTORS CORPORATION



In Witness Whereof, I have hereunto set my hand and affixed
the seal of the State of Indiana, at the City of Indianapolis, this

17th day of

FEBRUARY 19 82

LILLING EDWIN J. SIMCOX, Secretary of State

By Deputy



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

ank O'Bannon

Lori F. Kaplan
Commissioner

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.in.gov/idem

December 5, 2001

Mr. Kevin W. Caraker Environmental Engineer Environmental Sciences Rolls-Royce Corporation P. O. Box 420 Indianapolis, IN 46206-0420

Dear Kevin:

This is in response to your letter dated November 27, 2001 regarding the following installation:

U.S. EPA ID #IND000806810 Location: Former Allison Plant 10 700 N. Olin Avenue Indianapolis, IN 46222

According to the information submitted, you have indicated that this facility is no longer in need of the U.S. EPA ID number. Your ID number has been coded as an inactive number. Please DO NOT USE this number without re-notifying the Indiana Department of Environmental Management of your activity.

If you have any questions or need further assistance, please contact me at 317-232-7956.

Sincerely,

Marilyn J. Hansen, Environmental Manager

Facility Data Analysis Section

Office of Land Quality



Rolls-Royce Corporation P.O. Box 420 Indianapolis, Indiana 46206-0420 USA

November 27, 2001

Ms. Marilyn J. Hansen
Environmental Manager
Facility Data Analysis Section
Office of Land Quality
Indiana Department of Environmental Management
100 North Senate
P.O. Box 6015
Indianapolis, Indiana 46206-6015

Re:

Allison Engine Company, Plant 10

Notification of Regulated Waste Activity

IND000806810

Dear Marilyn:

Rolls-Royce Corporation (formerly Allison Engine Company) vacated and sold the property known as Allison Engine Company Plant 10 at 700 N. Olin Avenue in Indianapolis in 1998.

My records indicate that we may not have formerly requested deactiviation of the hazardous waste identification number (IND000806810) for this property.

Please consider this notice as such request, retroactive to the sale date of December 30, 1998.

Sincerely,

Kevin W. Caraker Environmental Engineer Environmental Sciences

Tel: (317) 230-6095 Fax: (317) 230-6047 Mail Code: N-23 Out of Business

May in provided Horse

State Form 4336

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT INDIANAPOLIS

OFFICE MEMORANDUM

TO: FORMER Allison Plant 10, RCRA 1B1 File

DATE: 10-30-2001

IND 000 806 810, Indpls., Marion Co.

FROM:

Gary Romesser Lak

THRU: Rosemary Cantwell

Compliance Section

SUBJECT:

Trip Report for the former Allison Plant 10 site

On October 10, 2001, I conducted a Compliance Evaluation Inspection (CEI) of the former Allison Plant 10 site, located at 700 N. Holt (formerly Olin) Avenue, Indianapolis. The site is currently operated and identified as Frazier Farms under John Loudermilk, owner/CEO. The facility building has been gutted and no hazardous or solid wastes were found on-site.

Representative at the site, Andrew Loudermilk (grandson of owner), indicated that the site is in the process of being sold.

File Audit

The facility was last inspected on September 23, 1996. No violations were found and the facility was no longer generating any hazardous waste. Some recent wastestreams were generated from underground tank removals. Manifests indicate lead contamination.

Additional Findings

A follow-up phone conversation with Mr. John Loudermilk revealed that the site has actually undergone a Voluntary Remedial Project (VRP). Andy Gremos, the contracted project manager, indicated that approximately 10,000 ton of contaminated soil/debris were removed from the west side of the property. He reported that most of the contamination was non-hazardous, but some was hazardous for lead. A project report will be submitted to IDEM's Voluntary Remediation Program.

Conclusions and Recommendations

Based on the above findings, I will notify our Data Analysis Section to request that the site be removed from the notifier's database.

cc: Marion County Health Department Marilyn Hansen

India Department of Environmental Man ement VERIFICATION OF INSPECTION

This is to verify that on 10-, conducted by the undersigned rep	resentative of the Indiana Depar	n of <u>Frazier Farms</u> , 700 tment of Environmental Management	U. Holt Rewas , Office of Land Q
Type of Inspection:			
Complete Industrial/Ha Limited Industrial/Ha Industrial Waste Land	zardous Waste Inspection	Complaint Multi-Media Screening Evaluation Other	
Inspection Findings:			
In compliance, no vio	lations observed.		
In compliance, violati	ons were observed but corrected du	uring the inspection. See inspection repor	t .
		follow-up inspection. See inspection rep	
		ffice of Enforcement. See inspection rep	
	n/review is required to evaluate over	- •	
Other building	clean è no worte	S	· ·
Multi-Media Screening Checklist F	inding: NA		
Potential problems or corrected during the Potential problems or will be referred to the single-media inspection.	areas of possible non-compliance was inspection. Refer to the final sing areas of possible non-compliance was of possible non-compliance was of possible non-compliance was compliance with the complex of the complex o		dia screening checklist, but lia screening checklist. dia screening checklist, and sponse. Refer to the
Pollution Prevention:			
participation in Indiana's pollution pre of Pollution Prevention and Technical	especially manufacturing processes evention program is entirely voluntal Assistance?YesN	*************	generated. Your tacted by IDEM's Office
during the inspection. The company is	s encouraged to correct any deficient is as violations; however, prompt ac	verbally communicated to the undersignencies noted as soon as possible. Correction in details to may be taken into consideration in details.	ons made and verified
Written report provided at the o	itys that no wastes	Written report will be provided wit	hin 45 days.
IDEM Representative:	st at this site at time of		
Timted Name	Signature	Phone Number	Date
Gary Romesser	Dang Romen	317-308-3108	10-10-01
Company Representative:	. /		
Printed Name	Signature	Phone Number	Date
Adren Lowernill	Ang Low	317-557-0743	10-10-01
Street/PO Box	City, State, Zip	Ownership	Fax Number
57 5 Hading	Indiplo, IN 462	LY .	634-619n

county Makean

NOTIFIER DATABASE INFORMATION UPDATE FORM

EPA ID _	IND000806810 NAME allison Engine Co Pet 10
	Review the attached notification and change any information that is different from our current information. IF THE LOCATION ADDRESS IS DIFFERENT DO NOT MAKE ANY CHANGES. Return the form to Marilyn Hansen.
NEW NAME	Former allisan Alt 10 (put old name into alias field)
PREVIOUS	
LOCATION	ADDRESS
MAILING A	ADDRESS
CONTACT _	PHONE
LAND TYPE	OWNER TYPE
STATUS CO OFFICIAL	DE l-active 5-out-of-business 6-non-handler FL Z-reg under other ID 3-dead mail
SIC CODES	
GENERATOR 1-LQG 2-SQG 3-CEG	TRANSPORTER TSD s-for own waste c-commercially x-don't know
COMMENTS	Newpuner
NAME	Mainlyn Hansen DATE 7/26/00

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

From Approved, ONIS No. 2050-0028 Expres 1231/02
GSA No. 0245-EPA-OT

FPA Form R700-17 beinte!	Notification of Regulated Waste Activity									
required by law (Section 3010 of	mental Protection Agency	JUL 3 1 2000 7ax 7.25.00								
I. Installation's EPA ID Number (Mark 'X' in the appropriate box)	1 2 1 1 1 1 1 1 1 1 1 1 1	1000								
A. Initial Notification B. Subsequent Notification (Complete item C)		Number D6810								
II. Name of Installation (Include company and specific site name										
Former Allison	Plant #10									
III. Location of Installation (Physical address not P.O. Box or Ro	ute Number)									
Street										
700 North 1011 n	Abenue									
Street (Continued)	······································									
City or Town	State Zip Code									
In Bianapollis!	IN 6677	24-111								
County Code County Name	: []]]									
01917[Maltion 1]		L L								
IV. Installation Mailing Address (See Instructions)	原体 医二次 多类的 网络									
Street or P.O. Box	· · · · · · · · · · · · · · · · · · ·									
<u>Sam'e </u>		:								
City or Town	State Zip Code									
V. Installation Contact (Person to be contacted regarding waste	· · · · · · · · · · · · · · · · · · ·									
Name (Last)	(First)									
L e i w 1 6: ' !	Pober14									
Job Title	Phone Number (Area Code and Numb	, 								
Compliance Maire	1717101-181518 -17	5.6.4								
VI. Installation Contact Address (See instructions) A. Contact Address										
Location Mailing B. Street or P.U. Box	le 75 Park									
[City or Town	State Zip Code	way								
										
VII. Ownership (See instructions)	1 1 16/4/3/0/3/3									
A. Name of Installation's Legal Owner 6 e n wine Part 5 C	0 40 6 4 0	<u> </u>								
	lolmplang									
Street, P.O. Box, or Route Number	iPar kway									
City or Town	Parkway! State Zip Code									
Altiantal	1 6 A 3 0 3 3	91-111								
Phone Number (Area Code and Number) B.Land Typ		Date Changed								
770-858-2564 P	P Yes No	Month Day Year								

EPA Form 8700-12 (Rev. 12/99)

- 1 of 2 -

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 12/31/02 GSA No. 0246-EPA-OT

	IN	O O O O O O O O O					
Will Tree of Paralleted Month Askirite		00008068110					
VIII. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to Instructions) A. Hazardous Waste Activities C. Used Oil Management Activities							
A. nazardous	Waste Activities	C. Used Oil Management Activities					
1. Generator (See Instructions) a. Greater than 1000kg/mo (2,200 lbs.) b. 100 to 1000 kg/mo (220-2,200 lbs.) c. Less than 100 kg/mo (220 lbs.) 2. Transporter (Indicate Mode in box 1-5 below) a. For own waste only b. For commercial purposes Mode of Transportation 1. Air 2. Rail 3. Highway 4. Water 5. Other - specify	required for this activity, see instructions.	1. Used Oil Transporter/Transfer Facility - Indicate Type(s) of Activity(ies) a. Transporter b. Transfer Facility 2. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies) a. Processor b. Re-refiner 3. Off-Specification Used Oil Burner 4. Used Oil Fuel Marketer a. Marketer Who Directs Shipment of Off-Specification Used Oil to Used Oil Burner b. Marketer Who First Claims the Used Oil Meets the Specifications					
B. Universal	Waste Activity						
☐ Large Quantity Handler of Universal \	Waste	1					
IX. Description of Hazardous Wastes (Use additional sheets if necessary)						
	CFR 261.31 - 33; See instructions if you need to	list more than 12 waste codes.)					
FOOI FOOQ 7 B. Characteristics of Nonlisted Hazard	9 10 Ous Wastes. (Mark 'X' in the boxes correspondence of the boxes)	11 12 12 Inding to the characteristics of					
nonlisted hazardous wastes your install to list more than 4 toxicity characteristic 1. Ignitable 2. Corrosive 3. Reactive 4. Toxici (D001) (D002) (D003) Character	(ation handles; See 40 CFR Parts 261.20 - 261.20 waste codes.) (List specific EPA hazardous waste number(s) for	4; See instructions if you need					
1 2	3 4	5 6					
X. Certification							
a system designed to assure that qualified person or persons who manage the system submitted is, to the best of my knowledge a	ent and all attachments were prepared under my personnel properly gather and evaluate the info stem, or those persons directly responsible for and belief, true, accurate, and complete. I am a possibility of fine and imprisonment for knowir	mation submitted. Based on my inquiry of gathering the information, the information was that there are simplifient people for					
Robert M. Jewis	Name and Official Title (Type or prin ReBERT M. LEWIS, ENVIRON)	Date Signed MENTAL MCR 7/25/00					
XI. Comments	in the second of the second						
Service Parts Coupany leased pr	openly Bron, Associated flopenties	5,555. Harding Ave., Indy 46222					
Note: Mail completed form to the appropriat	e EFA Regional or State Office. (See Section !	V of the booklet for addresses.)					

EPA Form 8700-12 (Rev. 12/99)

- 2 of 2 -

Out of Business;







OFFICE OF LAND QUALITY HAZARDOUS WASTE HANDLER IDENTIFICATION

	INFORMATION ON FILE as of 10/26/2001	CHANGES NEEDED (please print)
COUNTY	MARION .	Reason for submittalSubsequent notification to update informationAs a component of the annual or biennial report
RCRAID +	IND000806810.	As a component of the annual operation fees
NAME	FORMER ALLISON PLT 10	
LOCATION	700 N OLIN AVE	
ADDRESS	INDIANAPOLIS IN 46222	we moved *post office change
MAILING	2999 CIRCLE 75 PKWY	
ADDRESS	ATLANTA GA 30339	
CONTACT Title Address	ROBERT LEWIS COMPL MGR 2999 CIRCLE 75 PKWY	
	ATLANTA GA 30339	
Phone Fax	770-858-2564 Ext	
E-mail	BOB_LEWIS@GENPT.COM	
OWNER Address	GENUINE PARTS CO 2999 CIRCLE 75 PKWY ATLANTA GA 30339	
phone fax e-mail	770-858-2564 Ext	Did the owner change?YesNo
Land type Owner type	P (See instructions for codes)	* WARNING If you have moved you may no longer use your old RCRA ID number.
Contact for questions on Annual/Bienn	the Last Name <u>LEWIS</u>	First Name RoBERT Phone # 773 - 858 2564
designed to en manage the sy belief, true, ac or submitting	isure that qualified personnel properly gather and evaluate the in extem, or those persons directly responsible for gathering the inf curate and complete. I am aware that there are significant pena false information, including the possibility of fine and imprisonm	pared under my direction or supervision in accordance with a system aformation submitted. Based on my inquiry of the person or persons who formation, the information submitted is, to the best of my knowledge and lities under Section 3008 of the Resource Conservation and Recovery Action for knowing violations." Title **ERT** Title **ERT** ME** Date **I A A B A B A B A B A B A B A B A B A B

Page 1 of 2

IND000806810 FORMER ALLISON PLT 10

ACTIVITY	OLQ records	Current s	atus	Previous (report) year status
GENERATOR LQG = large quantity SQG = small quantity CESQG = conditionally exempt	LQG		n-handler * of Business*	When ID form is sent with fees or report X LQGNon-handler*CEGOut of Business*
TREATMENT, STORAGE, DISPOSAL FACILITY TRANSPORTER		Active TSDInactive TSDCompleted RCIPost closure ac		Active TSD Inactive TSD Completed RCRA closure Post closure activities
S = we transport our own waste C = we transport waste for others X = transporter, status unknown		We transport our ow We transport for ot No longer transport Out of business	hers (C)	* If you have checked out of business or non-handler, we will deactivate your RCRA ID number.
EXEMPT BOILER and/or INDUSTRIAL FURNACE				You must re-notify IDEM before you may reuse the number.
smelting,melting,refining exemption		smelting,melting	refining exemption	
small quantity on site burner exemption		small quantity or	site exemption	
Transporter Transfer Facility Collection Ctr UNIVERSAL WASTE	Re-refiner Recyler TRANSFER FACILITY	Markete		nent to off-specification burner ae oil meets specifications Burner
L = large handler S = small handler	Mix Bulk	Combine Comingle	Pump Repackage	Open containers Transfer between vehicles
NAICS CODES 44/3/ (primary) HW CODES			(See instructi	ons for NAICS and HW codes)
COMMENTS GENUINE P	ARTS COMP	PANY DES NO	TOWN 7	HE PROPERTY STE. H GENERATED HAZA.
WE ARE CON	W PROTES	TE REMEDIA-	THON WHIC	H GENERATED HAZA
WASTES. TA	TE FROYERT	Y OWNER IS	JOHN L	OVDERMILK.

Maurin Co 1A



Indiana Department of Environmental Management

We make Indiana a cleaner, healthier place to live

Frank O'Bannon
Governor
John M. Hamilton

Commissioner

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

November 6, 1997

Mr. Kevin W. Caraker Environmental Engineer Environmental Sciences Allison Engine Company P. O. Box 420, Mail Stop N23 Indianapolis, Indiana 46206-0420

Dear Mr. Caraker:

Re: U.S. EPA ID Number IND000806810 Location: 700 N. Olin Avenue Indianapolis, Indiana

In response to your correspondence dated November 3, 1997, the following information has been updated:

Generator Status: Conditionally Exempt Small Quantity Generator

If you have any questions or need further assistance, please contact me at 317-232-7956.

Sincerely,

Marilyn J/Hansen, Environmental Manager

Hazardous Waste Data Analysis and

Waste Minimization Section

Hazardous Waste Compliance Branch

Solid and Hazardous Waste Management

An Equal Opportunity Employer

Please refer to the Instructions for Filling Notification before completing this form. The information requested here is required by law (Section 3010 fifte Resource Conservation and Recovery Act).

REPA

Notification of Regulated Waste Activity

Date Received (For Official Use Only)

NOV 0 6 1997

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EPA Form 8700-12 (Rev. 11-30-93) Previous edition is absolete.

Continued on Reverse

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)	

EPA Form 8700-12 (Rev. 11-30-93) Previous edition is obsolete.

[Allison]

Allison Engine Company P.O. Box 420 Indianapolis, Indiana 46206-0420 -

Tel: (317) 230-6095 Fax: (317) 230-6047

November 3, 1997

Ms. Marilyn Hansen
Office of Solid and Hazardous Waste
Indiana Department of Environmental Management
100 N. Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

Re: Allison Engine Company, Plant 10 Notification of Regulated Waste Activity EPA ID No. IND000806810

Dear Ms. Hansen:

EPA Form 8700-12 is herein submitted to update generator status for Allison Engine Company Plant 10 (IND000806810). The property is now leased by Allison Engine Company and the present tenant does not generate hazardous waste. The previous owner, General Motors Corporation, has obtained a temporary ID for any waste which may be generated by any remediation activity conducted at this site.

If you have any question, please contact me at (317) 230-6095.

Sincerely,

Kevin W. Caraker

Environmental Engineer

Environmental Sciences



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Evan Bayk Governor Kathy Prosser Commissioner

105 South Meridian Street P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

August 31, 1992

Ms. Lynn Gibboney Allison Transmission Division P.O. Box 894 Indianapolis, Indiana 46206

Dear Ms. Gibboney:

Re: Manifest Record Review
Allison Transmission Division
EPA I.D. Nos. IND 006413348
IND 072082316
IND 000806828
IND 000806794
IND 000806810
IND 000806802
IND 981952716

Indianapolis, Marion County

The Indiana Department of Environmental Management (IDEM), Office of Solid and Hazardous Waste Management (OSHWM), Manifest Tracking (MT) staff conducted a Manifest Record Review (MRR) on August 25, 1992, at your facility located at 4700 West 10th Street, Indianapolis, Indiana. Mr. Phillip Duvall, represented Allison Transmission Division during this MRR.

Based upon documents available to the MT staff on this date, it has been determined that Allison Transmission Division is in compliance with Indiana Administrative 26de 329 IAC 3.1.

please contact Mr. Julian J. Mills of this office at 317/232-7952

Very Truly Yours

T.J. Knotts, Chief

Policy and Planning Branch

Solid and Hazardons Waste Management

An Equal Opportunity Employer



STATE OF INDIANA BIENNIAL REPORT 1989

GMC-DDAD LANT 10
700 N. OLIN AVENUE
TNDIANAPOLIS

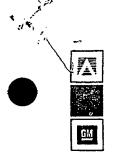
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APR 02 690

FORM I: INSTALLATION IDENTIFICATION FORM

WHO MUST COMPLETE FORM I? Every site that rec	eives this package.
INSTRUCTIONS: Please refer to the specific instructions be	. •
is required by IC 13-7-8.5-2.	
I. INSTALLATION'S EPA I.D. NUMBER I N D	0 0 0 8 0 6 8 1 0
II. NAME OF INSTALLATION PLANT 110	A L L I S O N G A S T U R B I N E - G N
III. INSTALLATION MAILING ADDRESS	
	· · · · · · · · · · · · · · · · · · ·
Street Or P.O. Box Plo IBlo X 14 2 0	14141A1
City Or Town INDIANAPOLIS	<u> </u>
State I N	Zip Code 4 6 2 0 6
IV. LOCATION OF INSTALLATION	Zip Code 4 0 2 0 0
Street Or P.O. Box 7 0 0 N 0 R T H 0 L	IINI AIVELLI LI LI LI LI LI LI
City Or Town LINDIAN APOLITS	
State I N Zip Code 4 6 2 2 2	County MARION
V. HAZARDOUS WASTE ACTIVITY	
Mark the boxes that reflect the activities at your facility is	n 1989.
·	•
Large Quantity Generator (G) generated 1,000 or more kg/month of RCRA hazardous waste	RCRA Exempt treatment, recycling or disposal was conducted in RCRA exempt units
Small Quantity Generator (SQG)	- vota to compt units
generated between 100-1,000 kg/month of RCRA hazardous waste	
Conditionally Exempt Generator (CEG) generated less than 100 kg/month of RCRA hazardous waste	·
Transporter (T) transported RCRA hazardous waste	
Treatment, Storage or Disposal Facility (TSD)	
operated under interim status or a final RCRA perm.	it
Non handler Did not handle RCRA hazardous waste because:	
We never generated	X Occasional generator (but none in 1989)
We are out of business	Other (Specify in Comments)
Only excluded or delisted waste	PAGE 1 OF2 (OVER)

Check to see if items II, IV, & V are identical to the information in the label on Form I. If not, p boxes below.	lease indicate why in the
VI. STATUS CHANGES	
a. We have moved.	•
b. We have changed ownership.	
c. We have changed hazardous waste activity.	
** If any of the above three boxes are marked, you will need to fill out the EF Hazardous Waste Activity Form, and return it with this packet.	'A Notification of
d. We have gone out-of-business.	
e. We no longer handle hazardous waste.	
** If you check either of these boxes, we will deactivate your EPA ID number and you it without renotifying U.S. EPA, Region V.	may no longer use
f. We have changed our name (but not ownership).	
VII. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE (See Table I)	
(1) _4 _2 _2 _5 (2) (3)	(4)
VIII. INSTALLATION CONTACT	
Last Name First Name Phone	(area code & no.)
EIT Z E L G R E G O R Y	1/[2 3 0] - 3 4 6 0
IX. CERTIFICATION	
I certify under penalty of law that this document and all attachments were prepared a supervision in accordance with a system designed to assure that qualified personnel evaluate the information submitted. Based on my inquiry of the person or persons who a those persons directly responsible for gathering the information, the information subm my knowledge and belief, true, accurate, and complete. I am aware that there are significantly and imprisonment for knowledge and belief, true, including the possibility of fine and imprisonment for knowledge.	properly gather and nanage the system, or itted is, to the best of mificant penalties for
R. R. Walloon, V. R. S. Can, Man. My J. M.	<i>y</i> -2 -9
F. B. Wallace, V.P. & Gen. Mgr. (A.) PRINT OR TYPE NAME AND TITLE (B.) SIGNATURE	(C.) DATE SIGNED
Please print or type with ELITE type (12 characters per inch). On behalf of Ger	eral Motors
State Form 19288R	
Revised 8/89	PAGE OF
the state of the s	AIM001443



Allison

April 25, 1985

J. A. G. M.C

Jacqueline Strecker Land Pollution Control Division Indiana State Board of Health 1330 W. Michigan Indianapolis, Indiana 46202

Dear Ms. Strecker:

As a result of my conversation with you on April 11, 1985, I feel that an update on the Detroit Diesel Allison and Allison Gas Turbine Divisions here in Indianapolis is warranted. This update will provide information so that your files can be updated and future confusion eliminated in your filing systems and correspondence relative to our operations in Marion County.

The actual plant locations and numbers, plus the EPA identification numbers for Detroit Diesel Allison Division in Indianapolis are as follows:

Detroit Diesel Allison Division 4700 W. 10th Street P. O. Box 894 Indianapolis, IN 46206

I.D.# /
IND072082316♥
IND000806828
IND006413348
IND000806794
IND000806802 🗸

The actual plant locations and numbers, plus the EPA identification numbers for Allison Gas Turbine Division in Indianapolis are as follows:

Allison Gas Turbine Division 2001 South Tibbs Ave. P.O. Box 420 Indianapolis, Indiana 46206-0420

Plant No.	I.D.#	,
5	IND000806836	,
8 -	IND094469913 V	,
10	IND000806810/	_

Allison Gas Turbine Division General Motors Corporation P.O. Box 420 Indianapolis, Indiana 46206-0420

Your contact for environmental information, etc. for any of these locations is:

Pete Cook Speed Code S-44A Allison Gas Turbine Division, GMC P.O. Box 420 Indianapolis, Indiana 46206-0420

Thank you for your cooperation in this matter.

Sincerely,

P. P. Cook, Superintendent Environmental Science

PPC/gl (41285c)
xc: Ralph Pickard
David Lamm /
Harry Williams
Earl A. Bohner
Valdas Adamkus



Indianapolis Operations

P.O. Box 894

Indianapolis, Indiana 46206 Phone: (317) 242-5000 Cable: GM COMM IND A

28 October 1982

Mr. Valdas Adamkus Regional Administrator Region V EPA 230 South Dearborn Chicago, Illinois 60604

Dr. Ronald G. Blankenbaker Commissioner Indiana State Board of Health 1330 West Michigan P.O. Box 1964 Indianapolis, Indiana 46206

Subject: Delegation of Authority to Sign U.S. EPA Reports

For all reports and other information required of the Indianapolis Operations of Detroit Diesel Allison Division of General Motors, and as specified in the Code of Federal Regulations (40CFR122.6), the authority to sign for permits and other information required by the Environmental Protection Agency is delegated to the Plant Engineer of Indianapolis Operations.

L. F. Koci General Manager

cc: R. G. Barnes

DA 1-1 (7-80)

cou Mausa

NOTIFIER DATABASE INFORMATION UPDATE FORM

informa	the attached notification tion that is different fro tion. <u>IF</u> THE LOCATION ADDRESS E ANY CHANGES. Return the form t	IS DIFFERENT
NEW NAME	(put old name into alias field)	
	(put old name into alias field)	•
PREVIOUS ID		
LOCATION ADDRESS		
	· · _ ·	
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GENERATOR 1=LQG 2=SQG 3=CEG	TRANSPORTER TSD TSD	· ·
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COMMENTS		

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Please refer to the Instructions
Filling Notification before
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required by law (Section 3010

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Notification of Regulated Waste Activity

Date Received (For Official Use Only)

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			ID-FOI OIN	ciai Use Only
VIII. Type of Regulated Waste Activity (Mark X is	n the appropriate I	ooxes; Refer to Insi	ructions)	•
A. Hazardous Waste A	Activity		B. Used O	il Recycling Activities
a. Greater than 1000kg/mo (2,200 lbs.) b. 100 to 1000 kg/mo (200-2,200 lbs.) c. Less than 100 kg/mo (220 lbs.) 2. Transporter (indicate Mode in boxes 1-6 f. below) a. For own waste only b. For commercial purposes Mode of Transportation 1. Air 2. Rall 3. Highway 4. Water 5. Other - specify	Installation) No required for it instructions. Hazardous Was a Generator Market c. Boller and/orl 1. Smetter I 2. Small Qui Indicate Type Device(s) 1. Utility Bo 2. Industria 3. Industria	rketing to Burner ers industrial Furnace Deferral antity Exemption of Combustion iller I Boller Furnace	Oil to Off	Directs Shipment of Use Specification Burner Who First Claims the Use the Specifications irner - Indicate Type(s) Device(s) liter Boller Furnace insporter - Indicate Type(is) ler Facility cessor/Re-refiner - Indicate
5.	Underground Ir	ljection Control	b. Re-refine	
IX: Description of Hazardous Wastes (Use addition			• •	
A. Characteristics of Nonlisted Hazardous Was nonlisted hazardous wastes your installation hand				cteristics of
1, Ignitable 2. Corrosive 3. Reactive 2. Corrosive (D003) Characte	oristic (List specific i	PA hazardous waste n	minber(s) for the Toxic	fly characteristic contaminant(s
B. Listed Hazardous Wastes. (See 40 CFR 261.31	- 33; See instruction	ons if you need to li	st more than 12 wa	ste codes.)
1 2 F 0 0 2 8 S	3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10	5 11	6 12
C. Other Wastes. (State or other wastes requiring a	3	d I.D. number; See	Instructions.) 5	6
Certification I certify under penalty of law that this document and all system designed to assure that qualified personnel propor persons who manage the system, or those persons does to my knowledge and belief, true, accurate, and control to the system.	perly gather and eva directly responsible mplete. I am aware	nivate the information of or gathering the in that there are signifi	n submitted. Base formation, the info	i on my inquiry of the perso
including the possibility of fine and imprisonment for Signature Na		s. Title <i>(Type or pri</i>	nt)	Date Signed
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We a final man				11970
XI Comments	•		* * * * * * * * * * * * * * * * * * * *	
VII. D - See attached.				
Note: Mail completed form to the appropriate EPA Reg	ional or State Offic	≫. (See Section III	of the booklet for	addresses.)

EPA Form 8700-12 (Rev. 11-30-93) Previous edition is obsolete.

Comment (Item VII.D) - EPA Notification of Regulated Waste Activity, EPA Form 8700-12 EPA ID. No. IND000806810

The following is provided to clarify ownership changes from 1993 to present.

Prior to December 1, 1993

Name of Installation

Owner

Allison Gas Turbine Plant 10

General Motors Corporation

3044 N. Grand Blvd. Detroit, MI 48202 Phone: (313) 974-5000

December 1, 1993 through March 23, 1995

Name of Installation

Owner

Allison Engine Company Plant 10

Clayton, Dublier, and Rice

126 E 56th Street New York, NY 10022 Phone: (212) 407-5200

March 24, 1995 to Present

Name of Installation

Owner

Allison Engine Company Plant 10

Rolls-Royce North America Inc.

11911 Freedom Drive Reston, VA 22090 Phone: (703) 834-1700



Allison Engine Company P.O. Box 420 Indianapolis, Indiana 46206-0420 -

Tel: (317) 230-6095 Fax: (317) 230-6047

November 1, 1995

U.S. EPA Region V RCRA Activities P.O. Box A3587 Chicago, Illinois 60690

Re: Allison Engine Company Plant 10, EPA ID No. IND000806810

To whom it may concern:

EPA Form 8700-12 is herein submitted to update hazardous waste generator information for Allison Engine Company - Plant 10 (IND000806810). A change of ownership of this facility has occurred and is indicated in Section VII.

If you have any question, please contact me at (317) 230-6095.

Sincerely,

Kevin W. Caraker

Environmental Engineer Environmental Sciences

cc: J. Dooley, Indiana Department of Environmental Management



STATE OF INDIANA HAZARDOUS WASTE HANDLER INFORMATION UPDATE FORM

EPA ID:	IND000806810	COUNTY: MARION		
NAME:	ALLISON ENGINE CO INC PLANT 10	INVOICE: 95:00098	WASTE ACTIN	*** A.U.
Change				
LOCATION	LOCATION 700 N OLIN AVE	LI GENERATOR STATUS	1994 1994	667
ADDRESS:	INDIANAPOLIS IN 46222		L.QG (please indicate	(please indicate LQG, SQG, or CEG)
Change		TRANSPORTER STATUS S=for our own waste C=commercially		
Is the location addre	0 or	TSD STATUS (includes inactive TSD's who have not completed RCRA closure)		
MAILING ADDRESS:	INDIANAPOLIS NZ3 IN 46206	POST CLOSURE STATUS (indicates site has post closure activity)		
Change		* NON HANDLER		
		* OUT OF BUSINESS		***************************************
CONTACT:		* ONE TIME GENERATOR		
	INDIANAPOLIS 317-230-6095	* If you have checked one of these categories, your EPA ID number will be deactivated and you will have to reapply for it if you ever need to manifest waste off-site again.	your EPA ID number to manifest waste off-:	will be deactivated and site again.
Change		SIC CODES: 3724 SEC	SECONDARY	
OWNER:	ALLISON ENGINE CO INC PO BOX 420 INDIANAPOLIS IN 46206			
Change		CHONATTIBE:		1811
		SIGNALORE. COM.	JIAN O NO	-15.1711

DATE:

county Mauen

NOTIFIER DATABASE INFORMATION UPDATE FORM

EPA ID	INDO	2008	06810	NAME	al	lison	Engl	ns Co Pet 10
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NEW NAME		(put o	d name into al	lias field)		·	. •
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LOCATION	ADDRESS							
MAILING A	ADDRESS							÷.
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AIR-FL RA	AIL-FL HIGHW	AY WATER-FL	OTHER
INCINERATOR SURF-IMPOUND WASTE-PILES	CONTAINERS LANDFIL OTHER	TANKS LAND-TREAT	
LAND-DISP-UNIV	STORE-1	REAT-UNIV	•.
COMMENTS			

Please print or type with ELITE type (12 chara: per inch) in the unshaded areas only

Please refer to the instructions for Filling Notification before completing this form. The information requested here is

Notification of Regulated

Date Received (For Official Use Only)

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EPA Form 8700-12 (Rev. 11-30-93) Previous edition is obsolete.

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Yes X

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Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)

EPA Form 8700-12 (Rev. 11-30-93) Previous edition is obsolete.



October 17, 1994

Ms. Marilyn Hansen
Indiana Department of Environmental Management
Office of Solid and Hazardous Waste Management
P. O. Box 7035
Indianapolis, Indiana 46207-7035

Dear Ms. Hansen:

This letter is written to inform you of hazardous waste activities at Allison Engine Company Plant 10. We are requesting reactivation of EPÁ ID No. IND000806810 as a hazardous waste generator by submitting EPA form 8700-12.

If you have any questions please feel free to contact me at (317) 230-5456. Thank you for your cooperation.

Sincerely,

Patricia A. Ellis, Manager

Environmental Sciences

comy Marian

3/2/94

NOTIFIER DATABASE INFORMATION UPDATE FORM

EPA ID IND 000 806810 NAME allisas Gas Turbine Plt 10
Review the attached notification and change any information that is different from our current information. IF THE LOCATION ADDRESS IS DIFFERENT DO NOT MAKE ANY CHANGES. Return the form to Marilyn Hansen.
NEW NAME Ollish English Co Inc Plat 10 (put old name into alias field)
PREVIOUS ID
LOCATION ADDRESS
MAILING ADDRESS POBMO420 MS N23
CONTACT PHONE
LAND TYPE OWNER TYPE
STATUS CODE 1=active 5=out-of-business 6=non-handler OFFICIAL FL 2=reg under other ID 3=dead mail
SIC CODES
GENERATOR TRANSPORTER TSD 1-LOG
COMMENTS New Owner allison Engine Co Ju
NAME Manulyn Hansen DATE 3/3/94

STATE OF INDIANA HAZARDOUS WASTE HANDLER INFORMATION UPDATE FOR

EPA ID:	1993 HAZARDOUS WASTE HANDLER INFORMATION UPDATE FORM COO 806 STO F IND. 000806836 STO F COUNTY: MARION	R INFORMATION UPDATE FORM COUNTY: MARION
NAME:	ALLISON ENGINE CO., INC PLANT 10	*** HAZARDOUS WASTE ACTIVITY ***
Change		DEM 1993 EUTURE
Is the name of	is the name change due to a change in ownership? A yes no	Large Quantity Generator (LQG)
ADDRESS	ADDRESS: INDIANAPOLIS, IN 46222	Small Quantity Generator (SQG)
Change		Conditionally Exempt (CEG)
Is the location add	NONE Is the location address change due to a move or did the Post Office change your address? We moved PO change Other (please explain in comments)	Transporter S= for our own wate C=commercially
MAILING	P. O. BOX 420, MAIL STOP N-23	Treatment, storage, (TSD)
		• NON HANDLER
		* OUT OF BUSINESS
CONTACT:	r. KEVIN CARAKER	+ ONE TIME GENERATOR
		 If you have checked one of these categories, your EPA ID number will be descrivated and you will have to reapply for it if you ever need to manifest waste off-site again.
Change	AS ABOVE	SIC CODES: 3724 SECONDARY
Ĭ		COMMENTS: No previous form available. Change of
OWNER:	ALLISON ENGINE CO., INC.	3. Deactivation red
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12/2/93

NOTIFIER DATABASE INFORMATION UPDATE FORM

EPA ID TND 000806810 NAME allison Gas Turbui	PH 1
Review the attached notification and change any information that is different from our current information. <u>IF</u> THE LOCATION ADDRESS IS DIFFERENT <u>DO NOT MAKE ANY CHANGES</u> . Return the form to Marilyn Hansen.	
NEW NAME (put old name into alias field)	
PREVIOUS ID	
LOCATION ADDRESS	
MAILING ADDRESS	
CONTACTPHONE	
LAND TYPE OWNER TYPE	
STATUS CODE = 6 1=active 5=out-of-business 6=non-handler OFFICIAL FL 2=reg under other ID 3=dead mail	
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GENERATOR DILET TRANSPORTER TSD 1=LQG	
COMMENTS	
NAME Mainlyn Hansen DATE 12/21/93	,

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OFFICE OF SOLID UNITED ATES ENVIRONMENTAL PROTECTION AGENCYAND HAZARDOUS **REGION 5**

77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

ALLISON GAS TURBINE GM ATTN: PATRICIA A. ELLIS P.O. BOX 420 INDIANAPOLIS, IN 46206

REPLY TO THE ATTENTION OF:

This is in response to your letter of 12 - 01 - 93the following installation:

U.S. EPA ID NUMBER:

LOCATION OF INSTALLATION:

IND 000 - 806 - 810 700 N OLIN AVE INDIANAPOLIS, IN 46206

According to the information submitted, you have indicated that this facility is no longer in need of the $U.S.\ EPA\ ID$ number. Your ID number has been coded as an inactive number. DO NOT USE this number without re-notifying the U.S. EPA of your activity.

If you have any questions or need further assistance, please contact me at (312) 886-6173.

Sincerely.

Sharon Kiddon

Share Keldon

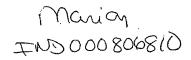
RCRA Notifications Coordinator Waste Management Division

Enclosure

cc: State Agency

File

Printed on Recycled Paper





Allison

November 29, 1993 (RF:NC2648a)

Ms. Sharon Kiddon
US EPA Region V
RCRA Activities
Waste Management Division
77 Jackson Street
Chicago, IL 60604

Dear Ms. Kiddon:

This letter is written to inform you that Allison Gas Turbine, Plant 10 is no longer a generator of hazardous waste. We are hereby requesting deactivation of the generator identification number (IND 000806810) for this facility. All hazardous wastes previously generated at this site have been manifested to an off site treatment facility.

If you have questions, contact me at (317) 230-5456. Thank you for your cooperation in this matter.

Sincerely,

Patricia A. Ellis, Manager Environmental Sciences

pae/nc

Allison Gas Turbine Division General Motors Corporation P.O. 8ox 420 Indianapolis, Indiana 46208-0420

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November 24, 1993 (RF:NC2648)

US EPA Region V RCRA Activities Waste Management Division 77 Jackson Street Chicago, IL 60604

Gentlemen:

This letter is written to inform you of hazardous waste activities at Allison Gas Turbine, Plant 10. We are requesting reactivation of EPA ID# IND 000806810 as an hazardous waste generator by submitting EPA Form 8700-12. This will be effective only for a one time generation of hazardous waste and will be deactivated following transport to an off-site treatment facility.

If you have questions, contact me at (317)230-5456. Thank you for your cooperation in this matter.

Sincerely,

Patricia A. Ellis, Manager Environmental Sciences

pae/nc

Allison Gas Turbine Division General Motors Corporation P.O. Box 420 Indianapolis, Indiana 46206-0420

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NOTIFIERS DATABASE CHANGE OF STATUS FORM

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NEW NAME Plant	10 Allison	Gas Turbir	CMA
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STATE OF INDIANA BIENNIAL REPORT 1989

GMC-DDAD-PLANT 10 700 N. OLIN AVENUE INDIANAPOLIS SEN INDOO0306810

FORM I: INSTALLATION IDENTIFICATION FORM

WHO MUST COMPLETE FORM I? Every site that rece INSTRUCTIONS: Please refer to the specific instructions be is required by IC 13-7-8.5-2.	· . · · · · · · · · · · · · · · · · · ·
i. INSTALLATION'S EPA I.D. NUMBER I N D	0 0 0 8 0 6 8 1 0
II. NAME OF INSTALLATION PLANT 1 1 0	ALLILISION GAS TURBINEEG
III. INSTALLATION MAILING ADDRESS	
Street Or P.O. Box P. 0 B 0 x 4 2 0	4 4 A
City Or Town IIN DI I A N A P O L I S	Zip Code 4 6 2 0 6
LOCATION OF INSTALLATION	Alp Code + o 2 o o
Street Or P.O. Box 7 0 0 N 0 R T H 0 L	IN AVE
City Or Town I N D I A N A P O L I S 1 1 1	
State II N Zip Code 4 6 2 2 1 2	County MARION .
V. HAZARDOUS WASTE ACTIVITY	
Mark the boxes that reflect the activities at your facility in	1989.
Large Quantity Generator (G) generated 1,000 or more kg/month of RCRA hazardous waste	RCRA Exempt treatment, recycling or disposal was conducted in RCRA exempt units
Small Quantity Generator (SQG) generated between 100-1,000 kg/month of RCRA hazardous waste	
Conditionally Exempt Generator (CEG) generated less than 100 kg/month of RCRA hazardous waste	
Transporter (T) transported RCRA hazardous waste	
Treatment, Storage or Disposal Facility (TSD) operated under interim status or a final RCRA permit	it
Non handler Did not handle RCRA hazardous waste because:	
We never generated	X Occasional generator (but none in 1989)
We are out of business	Other (Specify in Comments)
Only excluded or delicted waste	PAGE 1 OF? (OVER)

Check to see if items II, IV, & V are identical to the information in the label on Form I. If not, please indicate v boxes below.	why in the
VI. STATUS CHANGES	
a. We have moved. b. We have changed ownership. c. We have changed hazardous waste activity.	·
** If any of the above three boxes are marked, you will need to fill out the EPA Notification Hazardous Waste Activity Form, and return it with this packet.	a of
d. We have gone out-of-business. e. We no longer handle hazardous waste.	
** If you check either of these boxes, we will deactivate your EPA ID number and you may no longer it without renotifying U.S. EPA, Region V.	use
x f. We have changed our name (but not ownership).	
VII. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE (See Table I)	
(1) _4 _2 _2 _5 (2) (3) (4)	
VIII. INSTALLATION CONTACT	
Last Name First Name Phone (area code & 3 1 7 / 2 3 0 -	1
IX. CERTIFICATION	_
I certify under penalty of law that this document and all attachments were prepared under my direct supervision in accordance with a system designed to assure that qualified personnel properly gath evaluate the information submitted. Based on my inquiry of the person or persons who manage the systhose persons directly responsible for gathering the information, the information submitted is, to the my knowledge and belief, true, accurate, and complete. I am aware that there are significant penal submitting false information, including the possibility of fine and imprisonment for knowing violations.	ner and stem, or best of lties for
F. B. Wallace, V.P. & Gen. Mgr. (A.) PRINT OR TYPE NAME AND TITLE (B.) SIGNATURE (C.) DAT Please print or type with ELITE type (12 characters per inch). On behalf of General Motors	re signed
State Form 19288R Revised 8/89 PAGE	
· · · · · · · · · · · · · · · · · · ·	AIM001469

CHANGE OF STATUS FORM

COMPANY NAME Detroit Diesel Allison Plant 10 EPA ID IND 0008	206810
Please change on DP file name:GMC- DDAD- Plant 10	
Name Address ID Number Activity	
Status Contact Phone Other	
(Please check any appropriate boxes. Then cite the new data on the lines below.)	
Your Name: Statement 5/21/8	
Data to be changed:	
NAME = GMC-BDAD-Plant 10	
MAILING P.O. Del 420 ADDRESS Indistripolis, In 46206-0420	-
LOCATION 700 M. Olin ave ABBRESS = Endinapolis In 46222	<u>-</u>
To the To	· ·
CONTACT = Peter Cooke Speed Code 5-44A	
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	Please print or type with ELITE type	e (12 characters/inch) in the unshaded areas only.	GSA No. 0246-EPA-OT
		ATION OF HAZARDOUS WASTE ACTIVITY	INSTRUCTIONS: If you received a preprinted
	INSTALLA- TION'S EPA I.D. NO.	1433	label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information
	L STALLATION	4	in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted
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	LOCATION	80820	to the INSTRUCTIONS FOR FILING NOTIFI- CATION before completing this form. The
	III OF INSTAL-		information requested herein is required by law (Section 3010 of the Resource Canservation and Recovery Act).
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	M = NON-FEDERAL	C. TREAT/STORE/DISPOSE	INDERGROUND INJECTION
	VII. MODE OF TRANSPORTAT	TION (transporters only - enter "X" in the appropriate b	ox(es))
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	VIII. FIRST OR SUBSEQUENT	NOTIFICATION	
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	EPA Form 8700-12 (6-80)	U_1	え方にとり CONTINUE ON REVERSE

PLANT 10

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IX. DESCRIPTION OF HAZ	ardous wastes (c	continued from front	1	Control of		
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Form Approved QMB No. 158-S79016 Please print or type with ELITE type (12 ch. ...ters/inch) in the unshaded areas only. GSA No. 0246-EPA-OT U.S. ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF HAZARDOUS WASTE ACTIVITY INSTRUCTIONS: If you received a preprint label, affix it in the space at left. If any of INSTALLA-TION'S EPA I.D. NO. information on the label is incorrect, draw a li through it and supply the correct information in the appropriate section below. If the label is NAME OF INcomplete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted INSTALLA-TION II. MAILING ADDRESS label, complete all items. "Installation" means a single site where hazardous waste is generated, PLEASE PLACE LABEL IN THIS SPACE treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFI-CATION before completing this form. The LOCATION IIL OF INSTAL-LATION information requested herein is required by law (Section 3010 of the Resource Conservation and Recovery Act). COMMENTS 73 (VE. MO. & day) APPROVED I. NAME OF INSTALLATION II. INSTALLATION MAILING **ADDRESS** STREET OR P.O. BOX 0 3 D ZIP CODE III. LOCATION OF INSTALL STREET OR ROUTE NUMBER CITY OR TOWN ST. ZIP CODE IV. INSTALLATION CONTACT **为取的事情的意义是为此时有特别的** NAME AND TITLE (last, first, & job title) PHONE NO. (area code & no.) 4 V. OWNERSHIP 而你是这个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的。 第一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的。 A. NAME OF INSTALLATION'S LEGAL OWNER 8 G E N E 0 р B. TYPE OF OWNERSHIP (enter the appropriate letter into box) VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es)) 💹 A. GENERATION B. TRANSPORTATION (complete item VII) f = FEDERAL M = NON-FEDERAL C. TREAT/STORE/DISPOSE D. UNDERGROUND INJECTION VII. MODE OF TRANSPORTATION (transporters only – enter. "X" in the appropriate box(es)) A. AIR C. HIGHWAY D. WATER B. RAIL E. OTHER (specify): VIII. FIRST OR SUBSEQUENT NOTIFICATION Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification if this is not your first notification, enter your installation's EPA I.D. Number in the space provided below. C. INSTALLATION'S EPA I.D. NO. A. FIRST NOTIFICATION B. SUBSEQUENT NOTIFICATION (complete item C) IX. DESCRIPTION OF HAZARDOUS WASTES Please go to the reverse of this form and provide the requested information.

FPA From 8700-12 (E.BO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Frank O'Bannon
Governor

Lori F. Kaplan Commissioner 100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.in.gov/idem

July 1, 2003

Dan McInerny, Esq. Bose McKinney & Evans 2700 First Indiana Plaza 135 North Pennsylvania Street Indianapolis, IN 46204

> In re: Michigan Meadows Apartments and Michigan Plaza Shopping Center, Indianapolis, Indiana Your File No. 12950-1

Dear Mr. McInerny:

The Indiana Department of Environmental Management ("IDEM") is in receipt of the information submitted on June 11, 2003 ("AIMCO Report"), by you on behalf of Apartment Investment and Management Company. IDEM is currently performing a full technical review of the AIMCO Report. However, I wish to convey some preliminary feedback about the AIMCO Report and the voluntary remediation taking place at the Former Allison Engine Plant 10.

Upon initial review of the AIMCO Report, IDEM does <u>not</u> believe that the information presented therein indicates an imminent health threat requiring immediate action to relocate people or businesses or other immediate abatement action. The AIMCO Report described four locations with vapor contaminant sample readings appreciably elevated above target vapor levels.¹ The most significant of these readings was in the former library branch located in the Michigan Plaza Shopping Center, which, as you have conveyed to me, is now vacant. Two apartments in the Michigan Meadows Apartments also had elevated readings, but these apartments were listed in the AIMCO report as being vacant. Finally, the reading from the Village Pantry, located in the Michigan Plaza Shopping Center, had contaminant levels in excess of residential levels. However, the level found at the Village Pantry is lower than generally accepted worker exposure levels. Based on this worker exposure level, there is no need for immediate action. In sum, the AIMCO Report does not indicate that conditions require immediate action to eliminate exposure to contaminants.

¹ The AIMCO Report does not identify the source for the IDEM target vapor levels used to assess the sampling results. In fact, IDEM has not yet developed final vapor levels for general applicability. In this analysis, IDEM is utilizing site-specific residential numbers developed for another site, except as noted.





Mr. McInerny Page 2 of 2 July 1, 2003

Additionally, IDEM has concerns with the manner in which the data were collected. For example, no outdoor ambient level of contaminants was determined, soil gas sampling was insufficient, and sampling canisters were not placed in ideal locations. In particular, the placement of canisters next to heating vents and at ground level could cause the empirical data to be biased high.

The AIMCO Report does, however, indicate the potential for a vapor intrusion problem at Michigan Meadows Apartments and the Michigan Plaza Shopping Center. IDEM believes that further investigation of these sites is prudent. When additional data has been gathered, it will be possible to further evaluate any potential hazards. As such, IDEM is assigning a project manager to handle the site through IDEM's State Cleanup Program. Because of the continuing potential for vapor intrusion within the Michigan Meadows Apartments and the Michigan Plaza Shopping Center, and because of the concerns IDEM has with the manner of data collection conducted to date, IDEM believes that additional vapor intrusion sampling should be conducted. IDEM would like to extend the opportunity to AIMCO to conduct this sampling. However, IDEM strongly advises that AIMCO first contact IDEM for individualized guidance so as to prevent any potential data validity issues.

With respect to liability for the contamination at the Michigan Meadows Apartments and the Michigan Plaza Shopping Center, IDEM does not believe it is prudent at this time to hold responsible or exonerate any particular party. Furthermore, IDEM will not construe AIMCO's voluntary actions to investigate the potential contamination as evidence of liability, although the data generated thereby may be used by IDEM in an effort to assess liability.

IDEM would like to know AIMCO's intentions as to further sampling as soon as that decision is made. Should AIMCO decide to undertake this sampling, they or their consultant should contact Bill Hayes at (317) 233-1513 for guidance. If you have any other questions about this matter, please call me at (317) 233-1207 or call (800) 451-6027, press 0, and ask for me.

Very Truly Yours

Thomas W. Baker

Attorney

Office of Legal Counsel

cc: Mr. Bob Lewis, Genuine Parts Company
Mr. Andy Gremos, Keramida Environmental
Mr. Jefferey W. Larmore, Marion County Health Department
IDEM project managers